

Ephemerides. K.

pp. 2465 1699. 755. a

Apollo Anglicanus,
THE
ENGLISH APOLLO,
Assisting

ing of this Years Revolution, as also of
things past, present, and to come.

With necessary Tables, plain and useful.

A twofold Kalendar, viz. *Julian* or *English*,
Gregorian or *Forain* Computations, more plain and
full than any other, with the Rising and Set-
ting of the Sun, the nightly Rising and Setting of the
Moon, and also her Southing, Exactly calculated
for every day. Of general use for most men.

Being the 3d. after *Bissextile* or *Leap Year*.

To which is added the Moons application to the
fixed Stars: With the Calculation of the Eclipses: also
Rules and Tables for the measuring of Timber: with many
other things both pleasant, useful and necessary.

Calculated according to Art, and fitted to the Me-
ridian of *Leicester*, w^{ch} Last use is 52 Degrees 41 Mi-
nutes, exactly fitting all the middle Counties of England,
and wth out sensible error the whole Kingdom,

By **RICHARD SAUNDER**,
Student in the Physicall and Mathematical Sciences.

LONDON: Printed by *M. Clark*, for
the Company of **STATIONERS**, 1699.

The Julian or Old Ac. count used in Engl. 1699 The Gregorian or New Stile used beyond Sea.

	8	The Golden Number		8
	9	The Dominical Letter s		9
		The Epact		29
February	19	Shrove Sunday	March	11
May	1	Ascension-day	May	28
May	28	Whit-Sunday	June	7
December	3	Advent Sunday	November	19

A Table of the Terms and their Returns.

Midwinter Term begins January 23 ends February 13.

<i>Essoin-days.</i>		<i>Except.</i>	<i>Ret.</i>	<i>Brev.</i>	<i>Appear.</i>
Octab. Hilari. Jan.	20	January 21	Jan.	21	Jan. 23
Quind. Hilari. Jan.	27	January 28	Jan.	27	Jan. 30
Craftin. Purif. Feb.	3	February 4	Febr.	4	Febr. 6
Octab. Purif. Feb.	9	February 10	Febr.	11	Febr. 13

Easter Term begins April 26 ends May 22.

Quind. Pasch. Apr.	2	Apr.	25	Apr.	25	Apr.	26
Tres Pasch. May	1	May	2	May	2	May	3
Mens. Pasch. May	8	May	9	May	9	May	10
Quinq. Pasch. May	15	May	16	May	16	May	17
Craft. Ascens. May	19	May	20	May	22	May	23

Trinity Term begins June 9 and ends June 28.

Craft. Trin. June	5	June	6	June	7	June	9
Octab. Trin. June	12	June	13	June	13	June	14
Quind. Trin. June	19	June	20	June	20	June	21
Tres. Trin. June	26	June	27	June	27	June	28

Michaelmas Term begins Octob. 22 ends Nov. 28.

Tres Mich. Octob.	20	Octob.	21	Octob.	21	Octob.	23
Mens. Mich. Octob.	27	Octob.	28	Octob.	28	Octob.	30
Craft. Anim. Nov.	3	Novemb.	4	Novemb.	4	Novemb.	6
Craft. Mart. Nov.	13	Novemb.	14	Novemb.	14	Novemb.	15
Octab. Mart. Nov.	18	Novemb.	20	Novemb.	20	Novemb.	21
Quind. Mart. Nov.	25	Novemb.	27	Novemb.	27	Novemb.	28

A Table of the **KINGS and QUEENS** of England, since the Conquest

	Born Anno	Began to reign.	Reigned Y. M.	Since their Reigns ended.	Buried at
William 1	1023	1000, Oct. 14	20 11	1012, Septem. 9	Caen No.
William 2	1057	1087, Sep. 5	12 11	1089, August 2	Winches.
Henry 1	1068	1100, Aug. 1	35 4	1064, Decem. 1	Reding
Stephen	1105	1135, Dec. 2	18 11	1145, Octob. 25	Feversh.

The Saxon Line restor'd.

Henry 2	1132	1154, Oct. 25	34 9	1170, July 6	Fountev.
Richard 1	1152	1189, July 6	9 9	1199, April 6	Fountev.
John	1165	1199, April 6	17 7	1213, Octob. 19	Worcest. r
Henry 3	1207	1216, Oct. 9	56 1	1272, Nov. 16	Westmin.
Edward 1	1239	1272, No. 16	34 8	1291, July 7	Westmin.
Edward 2	1283	1307, July 7	19 7	1373, Jan. 25	Glocester.
Edward 3	1312	1327, Jan. 25	51 5	1322, June 21	Westmin.
Richard 2	1366	1377, Jun. 21	22 3	1399, Sent. 20	Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sep. 29	13 6	1413, Mar. 20	Canterb.
Henry 5	1386	1413, Mar. 20	9 5	1422, Aug. 31	Westmin.
Henry 6	1421	1422, Aug. 21	38 6	1461, Mar. 6	Windfor

The Line of York.

Edward 4	1442	1461, Mar. 4	22 11	1483, April 11	Winchett.
Edward 5	1471	1483, Apr. 9	0 2	1483, June 1	Not kno.
Richard 3	1483	1483, Jun. 22	2 2	1485, Aug. 2	Leicest.

The Families United.

Henry 7	1455	1485, Aug. 22	23 10	1490, April 21	Westmin.
Henry 8	1491	1509, Apr. 22	37 10	1552, Jan. 28	Windfor
Edward 6	1537	1547, Jan. 28	6 5	1566, July 6	Westmin.
Qu. Mary 1	1518	1553, July 6	5 4	1541, Nov. 17	Westmin.
Qu. Elizab. 1	1533	1558, No. 17	44 4	1566, March 24	Westmin.

The Union of the two Kingdoms.

James 1	1566	1602, Ma. 24	22 0	1625, March 27	Westmin.
Charles 1	1600	1625, Ma. 27	23 11	1648, Janu. 30	Windfor
Charles 2	1630	1648, Jan. 30	36 0	1688, Februar. 6	Westmin.
James 2	1633	1684, Feb. 6	4 0	1690, Febru. 13	
William & Mary 2	1650	1689, Feb. 13		Whom God grant long to Reign.	
	1661			Who died Dec. 28. 1694.	

You here may see a Race of Monarchs Great,
 When one resign'd, when t'other took the Seat.
 Of these some mighty were in Feats of Arms,
 Others much fam'd, admir'd for peaceful Charms.

The present fam'd for both, to pray now let's not cease,
 As He was great in VVar, He may be great in Peace. *Omni Potestas à Deo est*

A Table of the exact time of the Moon's coming to the South in Hours and Minutes, every day for the first six Months of this Year 1699.

Days	Jan.		February		March		April		May		June	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	8	A. 5	9	A. 46	8	A. 38	10	A. 8	10	A. 28	11	A. 28
2	9	5	10	44	9	32	10	54	11	14	12	18
3	10	8	11	42	10	26	11	40	12	0	M. 18	
4	11	12	12	38	11	18	12	27	M. 0		1	6
5	12	15	M. 38		12	10	M. 27		0	48	1	56
6	O. V. 15		1	30	O. M. 10		1	14	1	36	2	41
7	1	12	2	14	1	0	2	5	2	24	3	25
8	2	6	2	58	1	46	2	50	3	13	4	10
9	2	52	3	43	2	31	3	40	4	0	4	54
10	3	38	4	30	3	16	4	29	4	45	5	38
11	4	24	5	16	4	0	5	19	5	30	6	26
12	5	10	6	2	5	48	6	8	6	15	7	18
13	5	55	6	50	5	37	6	54	7	0	8	14
14	6	40	7	38	6	27	7	40	7	45	9	1
15	7	24	8	28	7	17	8	26	8	34	10	6
16	8	8	9	18	8	7	9	14	9	30	11	6
17	8	55	10	6	8	56	1	4	10	28	12	8
18	9	44	10	54	9	43	10	54	11	26	1A. 10	
19	10	31	11	42	10	30	11	46	12	26	2	12
20	11	24	12	30	11	1	12	0	1A. 28		3	8
21	12	14	1A. 18		12	6	1A. 38		2	30	4	0
22	1A. 0		2	6	1A. 0		2	40	3	28	4	46
23	1	47	2	54	1	54	3	42	4	24	5	31
24	2	32	3	46	2	50	4	43	5	16	6	16
25	3	18	4	44	3	46	5	41	6	6	7	0
26	4	6	5	41	4	45	6	36	6	52	7	46
27	4	54	6	40	5	44	7	24	7	37	8	30
28	5	48	7	40	6	42	8	10	8	22	9	18
29	6	42			7	37	8	56	9	7	10 6	
30	7	44			8	30	9	42	9	52	10 55	
31	8	47			9	21			1	40		

A Table of the exact time of the Moon's coming to the South in Hours and Minutes, every day for the last six Months of this Year 1699.

Days.	July		August		Septemb.		October		Novemb.		Decemb.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	11	A.42	0	M.6	1	M.10	1	M.40	3	M.26	4	M.0
2	12	33	0	50	2	0	2	36	4	28	4	54
3	0	M.33	1	3	2	50	3	34	5	26	5	45
4	1	20	2	20	3	44	4	33	6	20	6	30
5	2	6	3	6	4	38	5	32	7	8	7	15
6	2	54	3	52	5	32	6	30	7	54	8	0
7	3	2	4	40	6	28	7	26	8	38	8	46
8	4	30	5	32	7	26	8	20	9	23	9	34
9	5	18	6	28	8	26	9	10	10	11	10	24
10	6	6	7	20	9	23	10	0	11	0	11	14
11	6	56	8	3	10	18	10	48	11	50	12	4
12	7	46	9	34	11	12	11	36	12	42	12	54
13	8	40	10	34	12	2	12	24	1	A.31	1	A.42
14	9	43	11	32	12	52	1	A.14	2	20	2	36
15	10	46	12	24	1	A.42	2	4	3	10	3	10
16	11	46	1	A.14	2	30	2	54	4	0	3	53
17	12	45	2	4	3	18	3	43	4	44	4	36
18	1	A.42	2	54	4	6	4	31	5	27	5	20
19	2	35	3	4	4	54	5	20	6	10	6	3
20	3	25	4	34	5	42	6	8	6	53	6	46
21	4	12	5	22	6	32	6	53	7	36	7	30
22	5	0	6	9	7	20	7	38	8	20	8	24
23	5	45	6	51	8	10	8	23	9	10	9	24
24	6	30	7	42	8	56	9	8	10	4	10	16
25	7	14	8	32	9	42	9	56	11	2	11	30
26	8	0	9	18	10	28	10	46	12	1	12	34
27	8	48	10	4	11	14	11	36	0	M.1	0	M.34
28	9	36	10	50	12	0	12	25	1	4	1	34
29	10	26	11	36	0	M.0	0	M.25	2	6	2	31
30	11	15	12	23	0	49	1	24	3	4	3	24
31	12	6	0	M.23			2	24			4	14

To find the time of High Water in most Ports of England

First seek the Moon's Southing on the foregoing Table for your Day, than you may conclude it High-Water at Southampton, Quinborough and Portsmouth, for there the South and North Moons make a High-Water: But when you desire the time of Full Sea in any of the following Coasts in the ensuing Table, find the name of the Place, and see how many Hours and Minutes be annex'd thereunto in the Column under *H. M.* which added to the time of the Moon's coming to the South, gives the time of High-Water at the Place required.

A Tide Table, with the Names of the Havens.

	H.	M.
Rochester, Malden, Aberdeen,	0	45
Gravesend, Romney, Ramkins,	1	30
London, Tinnmouth, Hartle-pool,	3	0
Frith, Leith, Dunbar, Narbon,	4	30
Newcastle, Falmouth, Humber,	5	15
Lyn, Antwerp, Plimouth, Hull,	6	0
Bristol, Lamon, Foulness,	6	45
Milford, Bridg-water, North-coast,	7	30
Portland, Peterport, Hartflew,	8	51
Dover, Yarmouth, Harwich, Dublin,	10	30
Calan, Rye, Winchelsea, Calshot,	11	15

Example.

The Eleventh of March this year, it is Required to know the time of High-Water at London; By the Table of the Moons coming to the South, against March the 11th. I find the Moon South at 4 ho. 0 m. in the morning, then in the Tide Table above, I find against London, 3 ho. 0 min. which being added to 4 ho. 0 min. makes 7 ho. 0 min. the time of High-Water at London, March the 11th. in the morning, so of any other.

Note, That the Tide Floweth considerably more at the New and Full Moons, than at the First and Last Quarter, as also the Latitude of the Moon and Winds may alter it an hour sooner or later.

Directi-

Directions for the subsequent Diary or Almanack.

In the first Column to the left hand, on the left-hand Page you have the Numerical Figures of the days of the Month.

In the second Column you have the week days, and the Dominical Letter.

In the third Column you have the Saints days, and the places of the Planets once a Month; as also the Moons application to the fixed Stars, by which the Asterisms and Constellations may be easily known to an ingenious eye and understanding.

In the fourth Column the Moons place in the Zodiack every day at noon.

In the fifth Column the rising and setting of the Moon with respect to her Latitude.

In the sixth Column of the Mutual Aspects of the Planets with the general state of the Weather.

In the first Column on the Right-hand Page you have the English Account.

In the second Column you have the Roman Account.

In the third Column the Roman Week days.

In the fourth Column the perfect Roman KalenJar, and Saints days.

In the fifth Column you have a discourse of *Sphinx* or science.

The sixth, seventh and eighth Columns, the utmost to the Right hand, shew you the daily Rising and Setting of the Sun.

On the top of the Left hand Page is set the New and Full Moons, with the first and last Quarters.

On the top of the Right hand Page is set the Rising, South-ing and Setting of the Planets.

January hath xxxi. days.

- Full Moon the 5. day, at 6 night.
- ☾ Last quarter the 17 day, at 1 morning.
- New Moon the 21 day at 6 morning.
- ☾ First quarter the 28 day, at 2 afternoon.

1		New Years day	taur. 22	12	M. 45	☾	cloudy and close
2		D n. Aldebaran	gem. 7	4	0	♂ h ♀.	yet
3		D n. A'haiot	gem. 22	5	14	☾	frosty, but about
4		D n. Sirius	canc. 7	6	17	☾	the fourth day
5		D n. Proci n	canc. 22	Full	☾	* ♀.	Thaw
6		Epiphany	leo 7	5	A. 38	☾	with drizzling and
7		D n. Cor leonis	leo 21	6	50	☾	Foggy weather is
8		S. past Epip.	virg. 5	8	4	☾	♂ ♀ ♀. expected
9		Sol in Aquar.	virg. 19	9	18	☾	and contin. close
10		h ≈ 10	libra 2	10	3	☾	and dark weather.
11		☾ ≈ 19	libra 15	11	38	☾	* ♀.
12		♂ ≈ 4	libra 27	2	36	☾	♂ h ♀. light
13		St. Hilary	scorp. 9	0	M. 26	☾	frosts intermixt.
14		♀ ≈ 14	scorp 21	1	34	☾	* h ♀. and sharp
15		S. past Epip.	scagit. 3	2	32	☾	* ♀.
16		♀ ≈ 20 R.	scagit. 15	3	30	☾	♂ h ♀. about
17		♂ ≈ 5	scagit. 28	4	25	☾	the 14 day, and
18		D n. caud. Vult.	capri. 9	5	19	☾	about the ew
19		D n. lucid. Vult.	capri. 21	6	1	☾	♂ ☉ ♀. Moon
20		D n. dex. hu.	aquar. 3	6	37	☾	cloudy and close,
21		S. Agnes	aquar. 15	New	☾	☾	with Snow or
22		S. past Ep.	aqua. 28	6	A. 22	☾	cold drizzling rain
23		Term begins	pifces 11	7	30	☾	♂ ☉ ♀. is ex
24		D n. Caud. Ceti	pisc. 24	8	38	☾	pected, after
25		Conv. S. Paul	aries 7	9	50	☾	wards frosty wea
26		D n. Prim. * Ar.	aries 20	11	4	☾	ther, the cold in
27		D n. aust. p. And.	taur. 4	12	30	☾	creasing, and at
28		D n. Rleiadex	taur. 18	0	M. 0	☾	the end wind and
29		S. past Ep.	gem. 21	34	☾	☾	(snow, and right
30		S. Cha. I. Marti	gem. 17	2	44	☾	♂ ☉ h. winter
31		D n. dex. hu	au. canc. 1	5	—	☾	ly weather.

January 1692.

Saturn, Venus and Mercury at the beginning, set a little after the Sun, towards the end they are all combust.
Jupiter rises betwixt 4 and 5 in the morning.
Mars at the beginning sets a little before 7, at the end he sets a little after 7 at night.

English Accompt.
 Rom. Kalenda
 Kom. S. S. Days
 Festi. Accompt.

1	11	1	past Epip.	From the so merly men-	8	7	53
2	12	2	Satyrius	tioned Author, a Fable	7	5	55
3	1	3	Hillary	Sphinx or Science.	3	4	56
4	1	4	Felix	T IS said that Sphinx	4	7	58
5	1	5	Mauls	was a Monster of	5	8	59
6	1	6	Marcellus	divers forms, as having	6	7	59 4
7	17	7	Anthony	the Face and Voice of a	7	7	58
8	18	8	past Epip.	Virgin, the Wings of a	8	5	56
9	19	9	Pontian	Bird, her Body like a Dog,	9	5	55
10	20	10	Fab. & Seb.	her Claws or Talions like	10	5	53
11	21	11	Agnes	a Lyon or Griffin, her a-	11	5	52
12	22	12	Vincent	bode was in a Mountain	12	7	50 4
13	23	13	Ewerent	near the City of Thebes,	13	9	49
14	24	14	Timothy	she kept also the Highways,	14	4	47
15	25	15	past Epip.	and used to lye in Ambush	15	4	46
16	26	16	Policarp	for travellers, and so	16	4	44
17	27	17	Chrylsto.	surprize them; to whom	17	4	43
18	28	18	Car. Mag.	she propounded certain	18	4	41
19	29	19	Valerius	dark and intricate Rid-	19	3	39
20	30	20	Adelgund	dles, which were thought	20	7	38 4
21	31	21	Cyriacus	to have been given and re-	21	3	36
22	1	22	past Epip.	ceived of the Muses; now	22	3	34
23	2	23	St. Mary	if these Captives were not	23	3	33
24	3	24	Blase	able to resolve and inter-	24	3	31
25	4	25	Gilbert	pret them, instantly in the	25	7	29 4
26	5	26	Agatha	midst of their difficulties	26	2	27
27	6	27	Dorothy	and doubts, she would	27	2	25
28	7	28	Zachary	Rend & Tear them in Pie-	28	2	23
29	8	29	past Epip.	ces. The Country Groaning	29	1	18
30	9	30	Apollon.	a long time under this Ca-	30	1	19
31	10	31	Scholastico	lamity, Apollo told them	31	7	7 4

February hath xxviii days.

Full Moon the 4 day, at 6 in the morning.

Last quarter the 11 day at 8 at night.

New Moon the 19 day. at 9 at night.

First quarter the 26 day, at 11 at Night.

Mon. Day.	Week Da.	Festival & Saints	The Ds place in applicatio. to the zodiack noted fix'd stars. at Noon	The Ds rising fro. the full to the change, & setting fr. the cha. to the F.	The morn. Af. of the Plan. with the var. const. of air & cha. of wea.
1	D	n. Cast. & Pol.	canc. 16 4	M. 50	* ☉ ♄. Frosty weather is expected at the beginning of the Month, and continues, yet very moderate and seasonable, yet generally Frosty, and about the 11th day some sharp brisk Winds, but about the New Moon we may expect, first Misty and Drizzling, then plenty of Rain or Snow, to make good * ♂ ♀. the old Saying of February Fill Ditch after Stormy, and continues variable and unconstant weather to the end of the month.
2	E	Parificat Mary	leo 15	40	
3	F	n. Asellus	leo 15 6	22	
4	G	n. Cor Leonis	leo 29	Full ☉	
5	A	Septuagesima	virgo 13 6	A. 48	
6	H	n. Ciu. leo.	virg. 27 8	0	
7	C	n. Spic. Virg.	libra 10 9	12	
8	D	Sol in Pisces	libra 23 10	20	
9	E	n. lanx Aust.	scorp. 5 11	26	
10	F	n. lu. Col. Ser.	scorp. 17 11	30	
11	G	n. Cor. scorp.	scorp. 29 0	M. 30	Moons Rising. — Moons setting
12	A	Sexagesima	sagit. 11 1	26	
13	H	Term ends	sagit. 23 2	20	
14	C	Valentine	capri. 5 3	12	
15	D	♈ 24	capr. 13 4	2	
16	E	♉ 25	capr. 29 4	44	
17	F	♊ 2	aqua. 11 5	20	
18	G	♋ 4	aqua. 24 5	50	
19	A	Quinquagesima	pisc. 7	New ☉	
20	H	♌ 15	pisc. 20 6	A. 27	
21	C	Shrove-tuesday	aries 4 7	40	Moons setting
22	D	Ash-wednesday	aries 17 8	54	
23	E	♈ 3	taur. 1 10	8	
24	F	S. Matthias	taur. 15 11	22	
25	G	n. Pleiades	taurus 29 12	34	
26	A	Quadragesima	gem. 13 0	M. 34	
27	H	n. dex. hu. Aur.	gem. 27 1	42	
28	C	n. Cast. & Pol.	canc. 11 2	48	

February 1699.

Saturn, Venus and Mercury rise a little before the Sun.
 Jupiter rises at the beginning about 4 in the morning, at the
 end he rises before 3 in the morning.
 Mars sets a little after 7 at night.

Fe la state
 & concept.

☿ ☽ ♀
 ☿ ☽ ♀

English Accompt.	Roman Accompt.	Roman Calendar	Roman Saints days						
1	11	B	Euphrosin	there would be no end of	1	7	10	4	44
2	12	A	Severin	this Mischief till somebody	2	14			46
3	13	B	Agabus	Expounded her Riddles,	3	12			48
4	14	C	Valentine	The Thebans at last pro-	4	10			50
5	15	D	Septuagesim	pounded the Kingdom as a	5	8			52
6	16	E	Juliana	Reward to him that would	6	6			54
7	17	F	Dioscor.	Interpret them. where-	7	4			56
8	18	G	Simeon	upon Oedipus (a Man of	8	2			58
9	19	A	Roman	piercing and deep Judg-	9	7	0	5	60
10	20	B	Mildred	ment, but Lame and	10	5	5	5	62
11	21	C	Esaia	Maimed) moved with	11	50			64
12	22	D	Sexagesima	the hope of so great a re-	12	54			66
13	23	E	Serenus	ward accepted the condi-	13	52			68
14	24	F	S. Matthias	tion, and determined to	14	0		10	70
15	25	G	Invent. Paul.	put it to the Hazard;	15	48			72
16	26	A	Simeon B.	and so with an undaunted	16	6			74
17	27	B	Nestor	and bold Spirit, presented	17	6	44	5	76
18	28	C	Fortuna	himself before the Mon-	18	42			78
19	29	D	Quinquages.	ster, whose Riddle was	19	4			80
20	30	E	Ceddus	this; what Creature is	20	38			82
21	1	F	Cunigund	that, that in the Morning	21	3			84
22	2	G	Adrian	goeth upon four feet, at	22	30			86
23	3	A	Eusebius	Noon upon two, in the	23	3			88
24	4	B	Victor	Evening upon three, and	24	6	30	5	90
25	5	C	Perpetua	at Night upon four feet	25	2			92
26	6	D	Quinquages.	again. Oedipus forthwith	26	2			94
27	7	E	Prudent	answered it was Man,	27	23			96
28	8	F	Agapite	which in his Infancy, im-	28	2	15		98

March hath xxxi. days.

- Full Moon the 5 day, at 8 at night.
- Last quarter the 13 day, at 4 afternoon.
- New Moon the 21 day, at 9 in the Morning.
- First quarter the 28 day, at 5 in the morn.

1	D	David	canc.	25	3	M.44		* ♀ ♀. Cold and	d
2	E	Ember Week	leo	10	1	30	-	storm, wit	n
3	F	D n. Cor. Leonis	leo	24	5	4		some frost, about	
4	G	D n. aud leonis	virgo	8		31		the Full Moon,	
5	A	Sun in Lent	virg.	22			●	Moon Eclipsed	
6	B	D n. Vindemial	libra	5	7	A 4		high inds with	
7	C	D n. Spic. Virg.	libra	18	3	14		☐ ☉ ♀. store of	
8	D	D n. lan. Aust	scorp.	1	9	22		moisture, and	
9	E	D n. laux. Bor.	scorp.	12	1	28		llo about th 10	
10	F	Sol in Aries	scorp.	25	11	27		some stormy we-	
11	G	D n. Cor. scorp.	sagit.	7	12	22		ther: afterwards	
12	A	Sun in Lent	sagit.	19	0	M.12		some dry winds,	
13	B	h ♀ 27	capri.	1	1	12		and seasonab e	
14	C	♂ ♀ 28	capr.	13	2	0		and good March	
15	D	♂ ♀ 22	capr.	25	2	49		wea her. But a-	
16	E	♂ ♀ 2	aqua.	7	3	30	-	bout the 17 or 18	
17	F	♀ ♀ 21	aqua	20	4	0		we may expect	
18	G	♂ ♀ 2	pisces	24	4	28		some snow, sleet	
19	A	Sun in Lent	pisces	15	1	51		or cold drifling	
20	B	D n. cau. Cet.	pisces	29	5	17		Rain.	
21	C	Benedict	aries	13		New	●	Sun Eclipsed.	
22	D	D n. prim. * ♀	aries	26	8	A. 0		☐ ♀ ♀. And a-	
23	E	D n. cap. ed.	taur.	11	9	15		Δ ♀ ♀. bout the	
24	F	D n. Pleiades	taur.	25	0	23		↑ h ♀. 2: some	
25	G	Annunt. B. Mar	gem.	12	11	40		♂ h ♀: tempe-	
26	A	Sun in Lent	gem.	24	12	45		* ♀ ♀. ftuous	
27	B	D n. Sirius	canc.	8	0	M.45		* h ♀. weather,	
28	C	D n. Cast & P.	canc.	22	1	40		* ♂ ♀. which is	
29	D	D n. Aseilus	leo	5	2	24		followed with	
30	E	D n. Cor. leonis	leo	20	3	4		rain, at the end	
31	F	D n. Terg. leon	virg.	23	3	40		frosty mornings.	

Rising.

MOON'S Setting.

March 1699

Saturn and *Venus* towards the end rise near together betwixt four and five in the morning.

Jupiter at the beginning rises about two in the morning, at the end he rises about one. *Mars* sets a little after the Sun. *Mercury* riseth a little before him.

Rom. st. days
Rom. Calendar
Jovin. Accor.
nat. Accor.

1	U	Oswin	mediately after his Birth,	1	6	18	5	42
2	12	a	Gregorius	crawls upon all four, scarce	2	6	16	44
3	13	b	Euphrasia	venturing to creep, and not	3	14		46
4	14	c	Theodore	long after stands upright	4	12		48
5	15	d	Reminiscere	upon two, then growing old	5	10		50
6	16	e	Herbert	leans upon a Staff, where	6	8		52
7	17	f	Gertrude	with he supports himself, so	7	5	6	54
8	18	g	Edward	that he may seem to have	8	4		56
9	19	a	Joseph	three Feet; and at last in	9	6	2	58
10	20	b	Cuthbert	decrepid years, his strength	10	6	6	0
11	21	c	Benedict	failing him, he falls gro-	11	5	58	6
12	22	d	Oculi	velling upon all four again	12	5		4
13	23	e	Victorius	and lies Bed-ridden. Ha-	13	5		6
14	24	f	Quirinus	ving therefore by this true	14	5		8
15	25	g	Annum B.M.	answer gotten the Victo-	15	50		10
16	26	a	Castor	ry, he instantly slew this	16	48		12
17	27	b	Jo. Erem.	Sphinx; or as others say,	17	46		14
18	28	c	Gideon	at this his exposition of her	18	44	6	16
19	29	d	Lactare	Riddle, she was so griev'd,	19	42		18
20	30	e	Guido	she threw herself down the	20	40		20
21	31	f	Ralbina	Rock, and brake her neck	21	38		22
22	Apr	g	Theodore	which way ever it was,	22	36		24
23	1	a	Mary Egyp	he takes her Body, and	23	34		26
24	2	b	Ulpian	lays it upon an Ass, leads	24	32		28
25	3	c	Ambrose	it as it were in Triumph,	25	30	6	30
26	4	d	Judica	and so according to the	26	27		32
27	5	e	Sixtus	Condition, was created	27	25		34
28	6	f	Egesippus	King of the Thebans.	28	23		36
29	7	g	Dionysius		29	21		38
30	8	a	Marcellus		30	19		40
31	9	b	Ezekiel		31	17	6	42

April hath xxx days.

- Full Moon the 4 day, at 9 in the morning.
- Last quarter the 12 day, at noon.
- New Meon the 19 day, at 7 in the afternoon.
- First quarter the 26 day, at noon.

1	U	D n. Caud-leon	virgo	17	4	8	some storms of
2	A	Palm Sunday	libr.	0	4	30	Hail with cold
3	b	D n. Vindemiati	libr.	13	4	30	☿ ☿ ♀. Rain or
4	C	D n. Spic. Vir.	libra	26	Full	☿	Snow, and also
5	D	D n. laux. Ault.	scor.	9	8	A. 3	△ ☿ ♀. about
6	c	D n. fin. man. Op.	scorp.	21	9	30	* h ♀. the Full
7	E	D n. Cor. Scou p.	sagit.	3	10	2	△ ☿ ♀. Moon;
8	G	D n. dex. ha. Op.	sagit.	15	11	10	* ☉ h. followed
9	A	Easter day	sagit.	27	12	0	with some Frosty
10	n	Sol in Taurus	capr.	9	0	M. 0	mornings, after-
11	C	h ☿ 29.	capr.	21	0	48	wards tis hoped
12	D	U ♄ 8 R.	aqua	3	1	30	☿ ☿ ♀. we may
13	E	♂ ☿ 13	aqua.	15	2	6	have more tem-
14	C	♀ ☿ 18	aqua.	27	3	36	perate weather,
15	D	♀ ☿ 18	pisce.	10	3	0	with some cold
16	A	Low Sunday	pisce.	23	3	24	* ♀ ♀. rain a-
17	b	♂. o. o.	aries	7	3	48	bout the 14. to-
18	C	D n. prim * Ar	aries	21	4	12	wards the New
19	D	D n. cap. Ariel.	taur.	6	New	☿	warm & pleasant,
20	E	D n. Pleiades	taur.	21	8	A. 20	with gentle rain.
21	C	D n. Ald bran	gem.	5	0	8	☿ ☿ ♀ and good
22	G	D n. Alhaiot.	gem.	10	10	32	spring weather,
23	A	Sun. past East	canc.	4	11	34	St. George [
24	b	D n. Cast & P II.	canc.	18	12	30	☿ ♀. about
25	C	St. Mark.	leo	3	0	M. 30	the first quar. ex-
26	D	Term begins	leo	16	1	0	pect so cold Rain
27	E	D n. Cor. leon	virg.	0	1	54	or Hail, at the end
28	C	D n. caup. leo is	virg.	13	2	0	warmer wea her,
29	G	D n. Vindemiati	virg.	26	2	40	with some gentle
30	A	Sun. past East	libr.	9	3	0	showers.

April 1699.

English Accom.
Forcin. Accom.
Rom. Calendar.
Rom. St. days.

Saturn rises about 3 in the Morning.
Jupiter rises about midnight, Mars is hid under the Sun Beams.
Venus rises a little before the Sun. Mercury at the beginning is Combuſt, at the end he emergeth from the Sun Beams, ſetting after him.

1	11	e	Leo	This Fable contains in	5	40	26
2	12	d	Salmo Sund.	it no leſs Wiſdom than Ele	2	12	48
3	13	e	Juſtinus	gancy, and it ſeems to	3	10	50
4	14	f	Tiburtius	point at Science, eſpecially	4	8	52
5	15	b	Perpetuus	that which is joyn'd with	5	6	54
6	16	a	Iſidorus	Practiſe, for Science may	6	4	56
7	17	b	Osmond	(not abſurdly) be termed a	7	2	58
8	18	c	Eluther	Monſter, as being by the	8	0	7
9	19	d	Eaſcha	Ignorant and Rude Multi-	9	4	58
10	20	e	Sulpitius	tude always held in Ad-	10	50	4
11	21	f	Adelarius	miration; It is diſerſe in	11	54	0
12	22	b	Quintin	ſhape and figure, by reaſon	12	52	8
13	23	a	S. George	of the infinite variety of	13	50	10
14	24	b	Wilfride	Subjects wherein it is	14	48	12
15	25	c	S. Mark	Converſant. A Maiden	15	46	14
16	26	d	Quatunod.	Face and Voice, is attri-	16	44	16
17	27	e	Anaſtaſius	buted unto it for its gra-	17	42	18
18	28	f	Vitalis	tious Countenance and Vo-	18	40	8
19	29	b	Pet. de Mill.	lubility of Tongue, Wings	19	38	20
20	30	a	Jolua	are added becauſe Sciences	20	36	22
21	May	Phil. & Jac.		and their Inventions do	21	34	24
22	1	c	Athanafius	paſs and fly from one to a-	22	32	26
23	2	d	Milencord	nother, as it were in a	23	30	28
24	3	e	Florianus	Moment: ſeeing that the	24	28	30
25	4	f	Gothard	Communication of Sci-	25	26	32
26	5	b	Jo. Port. Lat.	ence is as the Kindling of	26	24	34
27	6	a	Juvenal	one Light by another. E-	27	22	36
28	7	b	Stanislaus	legantly alſo it is feign-	28	20	38
29	8	c	Epinaeh.	ed to have Sharp and	29	18	40
30	9	d	Teſſaſe	Hooked Talons, becauſe	30	16	42

May hath xxxi. days.

- Full Moon the 4 day, at 1 in the morning.
- ☾ Last Quarter the 12 day, at 4 in the morning.
- New Moon the 19 day at 7 in the morn.
- ☾ First quarter the 25 day at 7 in the afternoon

	S. Philip and Ja.	Dr.	2	M24		Warm showers at
2	☾ n. Lanx Aust.	scorp.	53	8		the begin. fol-
3	☾ n. Lanx Bor.	scorp.	174	1		lowed with brisk
4	☾ n. Cor Scorp.	scorp.	29	1		winds, after the
5	☾ n. Cap. Oph.	agit.	119	A. 10		Full Moon with
6	☾ n. Dex. n. Oph.	agit.	2	10		some drizzling rain,
7	☾ n. Scorp. & Hest.	apr.	5	10 50		is expected to
8	☾ n. caud. Vult.	capr.	17	11 30		☐ h ♂. conti-
9	☾ n. luc. Vult.	capr.	29	12 7		* ♀ ♀. nue win-
10	☾ n. Gemini	quar	10	M. 7		dy with drizzling,
11	☾ n. ♀ 1	aquar.	23	0 34		☐ ☉ h. till a-
12	☾ n. ♀ 6	pic.	6	1 0		bout the 1 or 2,
13	☾ n. ♂ II 4	pic.	18	1 55		then fair and hot
14	☾ n. ♀ 21	aries	2	1 50		weath. for some
15	☾ n. ♀ II 5 R	aries	1	2 18		days may be ex-
16	☾ n. ♀ 29	taur.	0	3 46		pected, some cool
17	☾ n. ♀ 29	aur.	15	3 16		gales with frosty
18	☾ n. ♀ 29	aur.	29	3 46		△ ♀ ♀. morn-
19	☾ n. Alhaiot	gem.	24	New		about the New
20	☾ n. dex. hu. An.	gem.	2	A 35		☉ ☉ ♀. Moon,
21	☾ n. ♀ 29	anc.	14	10 25		afterwards some
22	☾ n. Term end	cinc.	29	11 10		☉ ☉ ♀. showers
23	☾ n. ♀ 29	leo	13	11 46		☉ ☉ ♀ followed
24	☾ n. cor Leonis	leo	7	12 20		* h ♀. with
25	☾ n. Terg. Leon.	virgo	19	0 M. 20		high winds. Then
26	☾ n. caud. Leon.	virgo	23	0 46		follows hot wea-
27	☾ n. Virg Spic.	libr.	6	1 10		ther for some
28	☾ n. Windfunder	li ra	19	1 34		days, and at the
29	☾ n. ♀ 29	scorp.	2	0		end of the month
30	☾ n. luc. coli. ser.	scorp.	14	2 21		probably some
31	☾ n. ♀ 29	scorp.	2	2 42		Thunder.

MAY 1699

Saturn at the beginning rises about 2 in the Morning; at the end he rises about Midnight.
 Jupiter at the beginning rises betwixt 10 and 11 at Night; at the end he rises before 9 and is South a little after Midnight. Mars and Mercury towards the end are Combust. Venus rises betwixt 2 and 3 Morn.

English Account.	Roman Account.	Roman Saints days	Text	1	4	19	7	4
1	1	e	Mamert	because the Axioms and Ar-	1	4	19	7
2	2	e	Pancrat.	guments of Science do so fa-	2		17	7
3	3	e	Servatius	sten upon the mind, and so	3		16	
4	4	e	Boniface	strongly apprehend and hold	4		14	
5	5	b	Sophia	it, as that it cannot stir, or	5		12	
6	6	e	Isidorus	evade, which is noted also by	6		10	
7	7	e	Conrad	the divine Philosopher, Ec-	7		9	
8	8	e	Venant	cles. 12. 11. Verba Sapien-	8		8	
9	9	e	Potentia	tum (saith he) sunt tanquam	9		6	
10	10	e	Dunstan	aculei & veluti clavi in al-	10	4	5	7
11	11	e	Helena	tum deseri; The words of the	11		3	
12	12	b	Adelmus	Wife are like Goats, and like	12		2	
13	13	e	Desideri.	Nails driven far in.	13		1	
14	14	e	Agostina	Moreover, all Science doth	14	4	0	8
15	15	e	Urban.	seen to be placed in deep	15	3	50	3
16	16	e	Augustin	and high Mountains; as be-	16		58	
17	17	e	Beda V.	ing thought to be a lofty and	17		57	
18	18	e	Alf. Dom.	high thing, looking down up-	18		56	
19	19	b	Maximin.	on Ignorance with a scornful	19		54	
20	20	e	Isidore	Eye; it may be observed and	20		53	
21	21	e	Isidore	seen also a great way, and	21		52	
22	22	e	Paraphil.	far in Compass, as a thing	22	3	51	8
23	23	e	Marcel.	set on the tops of Mountains:	23		50	
24	24	e	Prasimus	Also Science may well be seig-	24		49	
25	25	e	Parochi.	ned to beset the High way.	25		48	
26	26	e	Boniface	because which way soever we	26		47	
27	27	e	Claudius	turn in this Progress and	27		46	
28	28	e	Perceus	Pilgrimage of Humane Life,	28	3	45	3
29	29	e	Medard.	8	29		44	
30	30	e	Barnius		30		44	
31	31	e	Gerulius		31	3	44	3

May hath xxxi days.

- Full Moon the 4 day, at 1 in the morning.
- Last Quarter the 12 day, at 4 in the morning.
- New Moon the 19 day at 7 in the morning.
- First quarter the 25 day at 7 in the afternoon.

	S. Philip and Ja.	br.	2	M24		Warm showers at
1	Dn. Lanx Aust.	cap.	53	8	☾	the begin. fol-
2	Dn. Lanx Bor.	scorp.	174	1	☾	lowed with brisk
3	Dn. Cor Scorp.	cap.	29	Full	☾	winds, after the
4	Dn. Cap. Ophi.	agit.	119	4	☾	Full Moon with
5	Dn. Dex. n. Ophi.	agit.	2	10	☾	some drizzling rain,
6	Sun. pass East.	ap.	5	10	☾	is expected to
7	Dn. caud. Vulc.	cap.	17	11	☾	☐ h ☽ conti-
8	Dn. luc. Vulc.	cap.	29	12	☾	* ☽ ☽. nue win-
9	Solin Gemini	quar	10	M. 7	☾	dy with drilling.
10	☾	aquar.	23	0	☾	☐ ☽ h. till a-
11	☾	alc.	6	1	☾	bout the 1 or 2
12	☾	alc.	18	1	☾	then fair and hot
13	Sun. pass East.	aries	2	1	☾	weath. for some
14	☽ V 21	aries	1	2	☾	days may be ex-
15	☽ II 5 R	taur.	0	46	☾	pected, some cool
16	☽ 12 19	aur.	13	3	☾	gales with frosty
17	☽	aur.	79	3	☾	Δ ☽ ☽. morn-
18	Dn. Alhaiot	gem.	24	New	☾	about the New
19	Dn. dex. hu. An.	gem.	2	A 39	☾	☽ ☽ ☽. Moon.
20	Sun. pass East.	anc.	14	10	☾	afterwards some
21	Term end	eine.	20	11	☾	☽ ☽ ☽. showers
22	Dn. Ane u	leo	13	11	☾	☽ ☽ ☽. follower
23	Dn. cor Leonis	leo	7	12	☾	* ☽ ☽. with
24	Dn. Terg. Leon.	virgo	19	0	M. 20	high winds. Then
25	Dn. caud. Leon.	virgo	23	0	☾	follows hot wea-
26	Dn. Virg Spic.	libr.	6	1	☾	ther for some
27	Whit Sunday	li. ra	19	1	☾	days, and at the
28	☽	scorp.	1	0	☾	end of the mont.
29	Dn. luc. coli. fer.	scorp.	14	2	☾	probably some
30	☽	scorp.	1	2	☾	Thunder.
31	☽	scorp.	1	2	☾	

Moons Settime.

MAY, 1699

English Account.	Roman Calendar.	Roman Saints days	Text	English Account.	Roman Calendar.	Roman Saints days	Text
			Saturn at the beginning rises about 2 in the Morning; at the end he rises about Midnight.				
			Jupiter at the beginning rises betwixt 10 and 11 at Night; at the end he rises before 9 and is South a little after Midnight. Mars and Mercury towards the end are Combust. Ven. rises betwixt 2 and 3 Morn.				
1	17	e	Mamert	because the Axioms and Ar-	14	19	7 41
2	18	e	Pancrat.	guments of Science do so fa-	2	17	7 41
3	19	a	Servatius	sten upon the mind, and so	3	16	44
4	20	a	Boniface	strongly apprehend and hold	4	14	41
5	21	b	Sophia	it, as that it cannot stir, or	5	12	41
6	22	e	Isidorus	evade, which is noted also by	6	10	50
7	23	D	Cantare	the divine Philosopher, Ec-	7	9	51
8	24	e	Venant	cles. 12. 11. Verba Sapien-	8	8	52
9	25		Potentia	tum (saith he) sunt tanquam	9	6	54
10	26	a	Dunstan	aculei & veluti clavi in al-	10	4	57 55
11	27	a	Helena	tum defixi; The words of the	11	3	57
12	28	b	Adelmus	Wise are like Goats, and like	12	2	58
13	29	e	Desideri.	Nails driven far in.	13	1	59
14	30	D	Rogation.	Moreover, all Science doth	14	4	08
15	31	e	Urban.	seem to be placed in steep	15	3	59 3
16	1	e	Augustin	and high Mountains; as be-	16	58	2
17	2	a	Beda V.	ing thought to be a lofty and	17	57	3
18	3	a	Asc. Dom.	high thing, looking down up-	18	56	4
19	4	b	Maximin.	on Ignorance with a scornful	19	54	6
20	5	e	Coelix	Eye; it may be observed and	20	53	7
21	6	D	Exaudi	seen also a great way, and	21	52	8
22	7		Pamphil.	far in Compass, as a thing	22	3	51 8 9
23	8	f	Marcel.	set on the tops of Mountains:	23	50	10
24	9	e	Erasmus	Also Science may well be feig-	24	49	11
25	10	a	Petrachi.	ned to beset the High way,	25	48	12
26	11	b	Boniface	because which way soever we	26	47	13
27	12	e	Claudius	turn in this Progress and	27	46	14
28	13	D	Pentecost	Pilgrimage of Humane Life,	28	3	45 3 15
29	14	e	Medard.	B we	29	44	15
30	15	e	Barnius.		30	44	16
31	16	a	Gerulius		31	3	44 3 16

June bath xxx Days.

- Full Moon the 2d day at 3 in the afternoon.
 Last Quarter the 10th day at 5 in the afternoon.
 New Moon the 17th day at 8 in the morning.
 First Quarter the 24th day at 5 in the morning.

1	g	n. Cor. Scorp.	sagit.	8	1	M. 6	I Moons rising.	Hot with some showers at the beginning, then ☿ ☽ ♀ follows high Winds driving away the Rain except now and then some drifings. ☿ ♀ Now expect some cooling gales of Wind, then Δ ☽ ☿ follows an increase of heat, and probably about the New Moon some Thunder ☿ ☽ showers which pass we may expect fair Δ ☿ ☽ Weather for some days, but ☿ ♀ windy and moist Air is expected about the first quarter, afterwards hot Weather with some Thunder Δ ☿ ☽ at the end.
2	f	pn. dex. hu. Oph	sagit.	2	8	A. 45		
3	g	pn. caud. vulc	capric.	2	8	A. 45		
4	g	Trinity Sunday	capric.	14	9	25		
5	u	pn. lucid. v	capric.	26	10	00		
6	c	pn. fin. hum	aqua.	8	10	32		
7	d	pn. dext. H.	aqua.	20	11	00		
8	e	pn. Manha.	pisces	2	11	25		
9	f	Termin. Regna	pisces	14	11	47		
10	g	Sol in Cancer	pisces	27	12	10		
11	g	St. Barnabas	aries	10	0	M. 10	I ☽s setting.	
12	b	☿ I R.	aries	24	0	36		
13	c	☿ 22.	taur.	8	1	6		
14	d	☿ II 26	taur.	23	1	40		
15	e	☿ 28	gem.	7	2	20		
16	f	☿ II 13	gem.	23	3	04		
17	g	☿ 27	canc.	8	New			
18	g	Sun. p. Trin	canc.	23	9	A. 2		
19	b	pn. Afellus	leo	8	9	38		
20	c	pn. cor. leonis	leo	22	10	10		
21	d	pn. Ter. Leo	virgo	6	10	40		
22	e	pn. caud. Leo	virgo	20	11	6		
23	f	pn. Vindemi.	libra	3	11	26		
24	g	St. John Bapt.	libra	16	11	46		
25	g	Sun. p. Trin	libra	29	12	10		
26	b	pn. lanx Austr.	scorp.	11	0	M. 10		
27	d	pn. lanx Por.	scorp.	23	0	40		
28	e	Termin. ones	sagit.	5	1	14		
29	f	St. Peter	sagit.	27	1	52		
30	g	pn. fin. Man. ☿	sagit.	29	2	32		

JUNE, 1699.

		Saturn rises betwixt 10 and 11 at Night.			
		Jupiter at the beginning is South at Midnight, at the end he is South about 10 at Night.			
		Mars is hid under the Sun Beams.			
		Venus rises betwixt 2 and 3 in the Morning.			
		Mercury rises a little before the Sun.			
English Account.	Roman Calendar.	Ro. Saints day			
1 11	a	St. Barnab.	we meet with some matter or	1 3	44 8 16
2 12	b	Cyrrillus	occasion offered for Contem	2	43 17
3 13	c	Basilus	plation. <i>Sphinx</i> is said to	3	43 17
4 14	d	Trin. Sund	have received of the <i>Muses</i>	4	42 18
5 15	e	Vitus, &c.	divers difficult Questions and	5	42 18
6 16	f	Rulandus	Riddles, and to propound	6	42 18
7 17	g	Botolph	them unto Men, which re	7	42 18
8 18	a	Corp. Chr	maining with the <i>Muses</i> , are	8	41 19
9 19	b	Gervase	free (it may be) from savage	9	41 19
10 20	c	Edward	Cruelty; for, so long as there	10	41 8 19
11 21	d	1. Sp. Trin	is no other end of Study and	11 3	41 19
12 22	e	Alban	Meditation, than to know, the	12	41 19
13 23	f	Basilus	Understanding is not racked	13	41 19
14 24	g	St. Jo. Bapt	and imprisoned, but enjoys	14	41 19
15 25	a	Elogius	freedom and liberty, and e	15	42 18
16 26	b	Jeremias	ven doubts and variety find a	16	42 18
17 27	c	Crescens	kind of pleasure and delecta-	17	42 18
18 28	d	2 p. Trin	tion; but when once these	18	42 18
19 29	e	St. Peter	Enigma's are deliver'd	19	43 8 17
20 30	f	Lucina	from the <i>Muses</i> to <i>Sphinx</i>	20 3	43 17
21	July	Tr. Sirith	that is, to Practice, so that	21	44 16
22	2	a Visit V.M	if it be solicited and urged by	22	44 16
23	3	b Kenelme	Action, and Election, and	23	44 16
24	4	c Ulricus	Determination; then they	24	45 15
25	5	d 3 Sp. Tri	begin to be troublesome and	25 3	45 8 15
26	6	e Tranquil	raging; and unless they be	26	45 14
27	7	f Demetrius	resolved and expedited, they	27	47 13
28	8	g Grimbald	do wonderfully torment and	28	48 12
29	9	a Cyril Ep.	vex the minds of Men, distra	29	49 11
30 10	b	Sept. Frat.	B 2 cting 30 3 50 8 10	30 3	50 8 10

July bath xxxi Days.

- Full Moon the 12^d day at 7 in the morning.
 Last Quarter the 18th day at 2 in the morning.
 New Moon the 16th day at 5 in the afternoon.
 First Quarter the 23^d day at 8 in the afternoon.
 Full Moon the 31st day at 9 at night.

1	g	Dn. Cann. Vulc.	capr.	1	3	M	22	1 Moons rising	Hot Weather is expected at the beginning, with some ♂ & ♀ drifting about ♂ & ♀ the fifth day, yet generally good Weather, and for the last quarter of the Moon frequent misty mornings, yet for the month Δ h ♀ part fair, which continues till about the New Moon. then some showers ♂ ☉ ♀ are expected, and probably some Thunder there-with; then follows fair and hot Weather for some days, and Δ ♀ about the 25th windy Weather is expected, and so continues windy to the end of the ♂ h ♀ month, which probably produceth some drizzling Rain.
2	4	Sun. p. Trin.	capr.	2	3	Full	●		
3	1	Dn. lucid. vult.	aqua.	5	7	A	32		
4	c	Dn. fin. hu.	aqua.	17	8		56		
5	D	Dn. dex. hu.	aqua.	25	9		2		
6	e	Dn. Marchab.	pisces	11	9		4		
7	f	Dn. caud. cer. R.	pisces	24	10		06		
8	3	Dn. Algenib.	aries	6	10		30		
9	5	Sun. p. Trin.	aries	19	10		56		
10	b	Dn. loc. cap. Ar	taur.	2	11		28		
11	e	Dn. Pleiades	taur.	16	12		7		
12	8	Sol in Leo	gem.	10		M	2	1 Moons setting	
13	e	Dn. Alhaiot	gem.	16	0		47		
14	f	Dn. huid. ped. H	canc.	11			38		
15	5	St. Swithiz	canc.	16	2		45		
16	6	Sun. p. Trin.	leo	1		New	●		
17	b	h X o R.	leo	16	8	A	8		
18	2	f T 19 R.	virgo	1	8		36		
19	3	S 19.	virgo	15	9		2		
20	7	Q S 10.	virgo	29	9		27		
21	f	Q A 13.	libra	12	9		52		
22	g	Q W 25.	libra	25	10		26		
23	7	Sun. p. Trin.	scorp.	8	10		49		
24	b	Dn. luc. col. ser.	scorp.	20	11		19		
25	c	St. James	sagit.	2	11		52		
26	D	Dn. Cor. scorp	sagit.	14	12		32		
27	e	Dn. dex. hu. opb	sagit.	26	0	M	32		
28	f	Dn. caud. vult.	capr.	8	1		20		
29	g	Dn. luc. vult.	capr.	20	2		12		
30	8	Sun. p. Trin.	aqua.	1	3		8		
31	b	Dn. fin. hu.	aqua.	13		Full	●		

JULY, 1699.

English Account.
Roman Account.
Roman Calendar.
Roman Saints days
 Saturn at the beginning is South about 3 in the morning, at the end he is South about 1 in the morn.
 Jupiter sets at the beginning betwixt 1 and 2 in the Morning, and Venus riseth about the same time.
 Mars toward the end emergeth from under the Sun-beams. Mercury goeth to Combustion.

1	11	c	Benedict	ting, and in manner send	13	51	8	8
2	12	d	4 S. p. Fri	ing them into sundry parts.	2	52	1	8
3	13	e	Henricus	Moreover, there is always	3	53	7	7
4	14	f	Bonavent	a twofold condition propoun-	4	54	6	6
5	15	g	Swithin	ded with <i>Sphinx</i> her Enigma's;	5	55	5	5
6	16	a	Kendlm	to him that doth not expound	6	56	4	4
7	17	b	Hilarius	them, distraction of mind,	7	58	2	2
8	18	c	Alexius	and to him that doth, a King-	8	59	8	1
9	19	d	5 S. p. Trin	dom; for he that knows that	9	60	0	0
10	20	e	Margaret	which he sought to know.	10	4	17	59
11	21	f	Praxeda	hath attained the end he aim-	11	3	7	57
12	22	g	Mary Mag	ed ar, and every Artificer	12	5	55	
13	23	a	Apollin	commands also over his	13	6	54	
14	24	b	Christiana	Work: And now <i>Oedipus</i>	14	7	53	
15	25	c	St. James	having attained thus much.	15	5	51	
16	26	d	6 S. p. Trin	as being in his Kingdom, and	16	10	50	
17	27	e	Martha	freed from the Miseries of	17	11	49	
18	28	f	Panthal	those Cares and Perturbations	18	12	48	
19	29	g	Felix	of Mind that otherwise would	19	14	46	
20	30	a	Abdon	have attended him; doth, as	20	4	16	7 44
21	31	b	German	it were in Triumph, bear a	21	17	43	
22			Augu. Lammas	way the Body of <i>Sphinx</i> ;	22	19	41	
23	2	d	7 S. p. Trin	and of him may be said, as	23	20	40	
24	3	e	Stephen	saith the Poet,	24	22	38	
25	4	f	Dominic.	<i>Felix qui potuit rerum Cog-</i>	25	4	24	7 36
26	5	g	Fest. Nivis	<i>noscere causas.</i>	26	25	35	
27	6	a	Vixus	<i>Quique metus omnes, & in-</i>	27	27	33	
28	7	b	Afra	<i>exorabile fatum.</i>	28	29	31	
29	8	c	Ladislav	<i>Subjicit pedibus, fremitumque</i>	29	31	29	
30	9	d	8 S. p. Trin	<i>Acherontis avari.</i>	30	4	33	7 27
31	10	e	Lawrence		31	25	25	

August hath xxxv Days.

- ☾ Last Quarter the 8th day at 10 in the morning.
- New Moon the 15th day at 1 in the morning.
- ☽ First Quarter the 22d day at 9 in the morning.
- Full Moon the 30th day at 11 in the morning.

1	c	Lammas	aqua.	2	6	A	23
2	d	D n. dex. brac.	aqua.	8	7		54
3	e	D n. Marc. p. g.	pifces	21	8		15
4	f	D n. Algenib	aries	3	8		36
5	g	D a. pri. * Ari	aries	16	9		0
6	h	D Sun. p. T. i.	aries	29	9		28
7	b	D n. cap. Med	taur.	13	10		0
8	c	D n. Pleiades	taur.	27	10		40
9	d	D n. Alhaiot	gem.	11	11		30
10	e	D Lawrence	gem.	25	12		26
11	f	D n. Cast. Poll.	canc.	10	0	M	26
12	g	Sol. in Virgo	canc.	25	1		30
13	h	D Sun. p. T. i.	leo	9	2		44
14	b	D n. cor. leonis	leo	24	4		8
15	c	D n. clerg. leon.	virgo	9		New	
16	d	D n. caud. leonis	virgo	23	7	A	22
17	e	h 28	libra	7	7		50
18	f	T 19 D.	libra	20	8		18
19	g	3 9	scorp.	3	8		48
20	h	D Sun. p. T. i.	scorp.	16	9		18
21	b	9 19	scorp.	28	9		54
22	c	5	sagit.	10	10		34
23	d	24	sagit.	22	11		18
24	e	St. Bartholom.	capr.	4	12		8
25	f	D n. cand. vult.	capr.	16	0	M	8
26	g	D n. lucid. vult.	capr.	28	1		2
27	h	D Sun. p. T. i.	aqua.	10	2		0
28	b	D n. fin. hu.	aqua.	22	3		4
29	c	D n. dex. Bra.	pifces	4	4		10
30	d	D n. Marchab.	pifces	17		Full	
31	e	D n. Algenib.	aries	0	6	A	54

☽ ☼ 14 Drifling
 Rain at the begin-
 ning, then follows
 fair and hot Wea-
 ther several days,
 ☽ ☽ ♀ yet some mi-
 sty mornings, and
 probably some Thun-
 der also. ☐ 14 ☽ Bat
 about the 10th ☽ ☼
 11th days we may
 expect Winds and
 drifling Rain, and
 continues for some
 days, with some show-
 ers also about the
 New Moon, then hot
 Weather for some
 days; about the 21
 day some drifling
 ☽ 14 ♀ Rain with
 Wind cooling the Air,
 then fair for some
 time; but toward the
 ☽ ☼ ♀ Full Moon
 expect both Wind
 and drifling Rains.
 Moon Eclips'd invi-
 sible.

AUGUST, 1699.

Saturn is South about midnight. Jupiter at the beginning sets betwixt 11 and 12, at the end he sets betwixt 9 and 10 at Night. Mars and Venus are near together at the former end of the Month, and rise about half an hour after 2 in the Morning. Mercury followeth the Sun, setting a little after him.

English Account.	Roman Calendar.	Roman Saints days.						
1 11	f	Tiburtius	Happy is he that knows a	c	1	3	23	
2 12	g	Clara V.	Cause of things,		2	39	21	
3 13	a	Hippolitus	And that with dauntless Cou-		3	41	19	
4 14	b	Eusebius	rage treads upon		4	42	18	
5 15	c	Alfu. V.M.	All Fears and Fates, relent		5	44	16	
6 16	d	p. S. p. Trin	less Threatnings,		6	46	14	
7 17	e	Agapitus	And greedy throat of roaring		7	48	12	
8 18	f	Helena	Acheron.		8	50	10	
9 19	g	Clinton R.	Of Sphinx her Riddles		9	52	8	
10 20	a	Bernard	they are generally of two	10	4	54	6	
11 21	b	Privatus	kinds, some concerning the	11		56	4	
12 22	c	Timothy	Nature of things, others	12		53	7	2
13 23	d	10 p. T. in	touching the Nature of Man;	13	5	07	c	
14 24	e	St. Bartho	so also there are two kinds of	14		16	59	
15 25	f	Ludovicus	Empire, as Rewards to those	15		3	57	
16 26	g	Severin	that resolve them, the one over	16		5	55	
17 27	a	Ruffus	Nature, the other over Men;	17		7	53	
18 28	b	Augustin	for the proper and chief end	18		8	52	
19 29	c	Decol. J. Ba.	of true Natural Philosophy, is	19		10	50	
20 30	d	11 p. Trin	to Command and Sway o-	20	5	12	6	48
21 31	e	Paulinus	ver Natural Beings; as Bo-	21		14	46	
22	Sept	Ægidius	dies, Medicines, Mechanical	22		16	44	
23	2	Anthony	Works, and infinite other	23		18	42	
24	3	Mamert	things, al hough the School	24		20	40	
25	4	Theodosia	(being content with such	25	5	22	5	38
26	5	Bertinus	things as are offered, and	26		24	36	
27	6	12 p. Trin	priding it self with Speech-	27		26	34	
28	7	Regi-a	es) doth neglect Realities	28		28	32	
29	8	Nat. V.M.	ind Goits , treading them,	29		30	30	
30	9	Gorgon	it were, under Foot. Bu,	30	5	32	28	
31 10	a	Southeres	B. A. that	31				

September hath xxx Days.

- ☾ Last Quarter the 6th day at 4 in the afternoon.
- ☾ New Moon the 13th day at 11 in the morning.
- ☾ First Quarter the 21 day at 4 in the morning.
- ☾ Full Moon the 29th day at 1 in the morning.

1	f	☾ n. med. in v.c.	aries	13	7	A	18		At the beginning
2	g	☾ n. pr. * Ar.	aries	26	7		42		☐ ☉ 24 we may
3	h	☾ 13 S. p. Trin.	taur.	10	8		12		expect windy and tur-
4	b	☾ n. Pleiades	taur.	24	8		50		bulent Weather ☐ 24 ☽
5	c	☾ n. Aldebaran.	gem.	8	9		34		which is followed with
6	d	☾ n. dex hu. Au.	gem.	21	10		25		showers of Rain a-
7	e	☾ n. Sirius	canc.	6	11		24		bout the 7th or 8th
8	f	☾ Nat. Virg. Ma.	canc.	20	12		36		days; then 'tis hop-
9	g	☾ n. Asellus	leo	4	0	M	36		ed we may have good
10	h	☾ 14 S. p. Trin.	leo	18	1		52		Weather for some
11	b	☾ n. luc. in te. leo	virgo	3	3		8		days.
12	c	☾ Sol in Libra	virgo	17	4		24		
13	d	☾ n. Vindem.	libr.	1		New			Sun Eclipsed visible.
14	e	☾ Exalt. Crucis	libra	25	5	A	31		
15	f	☾ 26	libra	28	7		0		☽ 24 ♀ Now Rain
16	g	☾ 21	scorp.	11	7		32		& Wind is expected
17	h	☾ 15 S. p. Trin.	scorp.	24	8		50		☐ 24 ♀ and about
18	b	☾ 28	sagit	6	8		40		the 17th day Wind
19	c	☾ 25	sagit	19	9		20		also, then more mo-
20	d	☾ Ember Week	capric.	0	10		12		derate for a while;
21	e	☾ St. Matthew.	capr.	12	11		4		but about the 24th
22	f	☾ 12 R.	capr.	24	12		0		day both Wind ☽ ☽
23	g	☾ 22	aqua.	6	0	M	0		and Rain is expected,
24	h	☾ 16 S. p. Trin.	aqua.	18	1		0		which being past,
25	b	☾ n. dex. hu.	pisces	0	2		6		then the Weather
26	c	☾ n. Marchab	pisces	13	3		14		☽ ♀ ☽ 'tis hoped
27	d	☾ n. caud. cer. B.	pisces	26	4		24		may be moderately
28	e	☾ n. Algenib	aries	9	5		45		good to the end.
29	f	☾ St. Michael	aries	22		Full			
30	g	☾ n. Manker	taur.	6	6	A	20		

Moons rising.

☽ setting.

SEPTEMBER, 1699.

Saturn is South between 9 and 10 at Night, and sets between 2 and 3 in the Morning.
 Jupiter at the beginning sets betwixt 9 and 10, at the end he sets between 8 and 9 at Night.
 Mars rises between 2 and 3 in the Morning.
 Mercury goeth to Combustion.

English Account.	Roman Calendar	Rom. Saints days	Foreign Account.
1 11	b	Coelix	that Enigma propounded to
2 12	c	Guido	Oedipus (by means of which
3 13	d	St. V. Trin	he obtained the Theban Em-
4 14	e	Exal. crucis	pire) belonging to the Na-
5 15	f	Nicomed	ture of Man; for whosoever
6 16	g	Edith	doth thoroughly consider the
7 17	a	Lambert	Nature of Man, may be in a
8 18	b	Pereolus	manner the contriver of his
9 19	c	Januar.	own Fortune, and is born to
10 20	d	St. S. p. Tri	command, which is well spo-
11 21	e	St. Matth.	ken of the Arts;
12 22	f	Muritus	
13 23	g	Tecla virg	Tu regere imperio populum,
14 24	a	Rupertus	Romane, memento.
15 25	b	Cleophas	Hac tibi erunt Artes, &c.
16 26	c	Cyprian	
17 27	d	St. S. p. Tri	Roman remember, that with
18 28	e	Wencesla.	Scepters awe,
19 29	f	St. Michael	Thy Realms thou Rule
20 30	g	Hierom.	these Arts let be thy Law.
21	o	Remigius	
22	2 b	Leodegar	It was therefore apposite,
23	3 c	Candidus	that Augustus Caesar (who
24	4 d	St. S. p. Tri	ther by premeditation or by
25	5 e	Constance	chance) bare a Sphinx in
26	6 f	Fides	his Signet: For he (if ever
27	7 g	Marcus &c.	any) was famous not only
28	8 a	Pelagia	in Political Government, but
29	9 b	Dionysius	in all the course of his Life:
30	10 c	Gideon	He

October hath xxxi Days.

- ☾ Last quarter the 5th day at 1: at night.
- ☾ New Moon the 12th day at 3 quarteres after 11 at night
- ☾ First quarter the 20th day a little before midnighr.
- ☾ Full Moon the 28th day a little after noon.

1	☾	7 S. p. Trm	taur.	20	6	A	50		Cloudy and close
2	b	☾ n. Aldebar.	gem.	4	7		32	Moons Rising.	Weather at the be
3	c	☾ n. Alhaiot	gem.	18	8		27		ginning, with some
4	d	☾ n. Sirius	canc.	3	9		30		brisk Winds about
5	e	☾ n. Cast. & Po.	canc.	16	10		38		the 5th day, then
6	f	☾ n. Afelius	leo	0	11		46		frosty * ☉ * morn-
7	g	☾ n. cor. leonis	leo	14	12		14		ings Δ ☉ h for
8	h	18 S. p. Trm	leo	28	0	M	54		some days; but about
9	b	☾ n. luc. in te. le.	virgo	12	2		4		the New * ☉ Moon
10	c	☾ n. caud. leon.	virgo	26	3		20		we may expect some
11	d	☾ n. Vindem.	libra	10	4		40		coar. falling Rain.
12	e	☾ n. Spi. Virg	libra	23		New		☉	Δ ☉ ☉ ☉ ☉
13	f	☉ in Scorpio	scorp.	6	5	A	52	Moons Setting.	with some cold and
14	g	☾ n. luc. col. fer.	scorp.	20	6		22		stormy Weather a-
15	h	19 S. p. Trm	sagit.	2	6		54		bout the 14 or 15
16	b	☉ 25 stat.	sagit.	14	7		30		days; then follows
17	c	☉ 7. 20.	sagit.	26	8		10		close, dark, misty
18	d	☉ Luke	capr.	8	8		56		and foggy Weather
19	e	☉ 17	capr.	20	8		54		for several days Δ h ☉
20	f	☉ 4	aqua.	2	10		56		with some * 4 ☉
21	g	☉ 25	aqua.	14	12		0		cold Rain about the
22	h	20 S. p. Trm	aqua.	26	0	M	00		22d day; afterwards
23	d	☉ Term Begins	pifces	8	1		4		'tis hoped we may
24	e	☉ 20	pifces	21	2		10		have fair and dry
25	d	☉ Crispin	aries	4	3		12		Weather for some
26	e	☉ n. vent. ceti	aries	17	4		28		days, with frosty
27	f	☉ n. pr. & Ari.	taur.	1	1		40		Weather towards the
28	g	☉ n. pr. & Ari.	taur.	14		Full		☉	end.
29	h	28 S. p. Trm	taur.	29	5	A	40	☉'s risin	
30	b	☉ n. Alhaiot	gem.	14	5		2		
31	c	☉ n. dex. hu. au.	gem.	29	7		22		

OCTOBER, 1699.

English Account.
Rom. Account.
Rom. Saints days
 Saturn at the beginning is South between 8 and 9 at Night, at the end he is South between 6 and 7, and sets between 11 and 12. Jupiter at the beginning sets about 8 at Night, at the end he sets before 7. Mars riseth between 2 and 3 in the Morning. Venus and Mercury are hid under the Sun Beams.

1	11	17 p. Trin	He happily discover'd many	1	6	37	5	23
2	1	e Colman	new Enigma's concerning	2	6	38		22
3	13	f Telemach	the Nature of Man, which	3		40		20
4	14	g Calixtus	it he had not done with dex	4		42		18
5	15	a Wolfrang	terity and promptness he had	5		44		16
6	16	b Gallus	ostentimes fallen in eminent	6		46		14
7	17	c Wolstan	danger.	7		48		12
8	8	St. Luke	Moreover, it is added in	8		50		10
9	9	Ptolomey	the Fable, that the Body of	9		52		8
10	20	f Wendelin	Sphinx when she was over-	10		54		6
11	21	g Cordula	come, was laid upon an A's;	11		56		4
12	22	a Severus	which indeed is an Elegant	12	6	58	5	2
13	23	b Roman	Fiction, seeing there is no	13	7	0	5	0
14	24	c Salome	thing so acute and abstruse,	14		2	4	58
15	25	19 p. Trin	but (being well understood	15		4		56
16	26	e Amaudus	and divulged) may be appre-	16		6		54
17	27	f Ursula	hended by a slow capacity :	17		8		52
18	28	St. St. & Jo	Neither is it to be omitted,	18		10		50
19	29	a Narcissus	that Sphinx was overcome by	19		12		48
20	30	b German	a Man lame of his Feet ; for	20	7	14	4	46
21	31	c Wolfgang	when Men are too swift of	21		1		44
22		all Saints	Foot, and too speedy of pace,	22		18		42
23	2	e All Souls	in halting to Sphinx her E-	23		20		40
24	3	f Theophilus	nigma's, it comes to pass that	24		22		38
25	4	g Amantins	(she getting the upper hand)	25	7	24	4	36
26	5	a Petronel	their Wits and Minds are ra-	26		26		34
27	6	b Leonard	ther distracted by Disputati	27		28		32
28	7	c Florent	ons, than that ever they	28		30		30
29	8	18 p. Trin	come to Command by Works	29		32		28
30	9	e Theodore	and	30	7	34	4	26
31	10	f Martin P.		31		36		24

November hath xxx Days

- Last Quarter the 4th day at 6 in the morning.
- New Moon the 11th day half an hour after 3 in the afternoon.
- First Quarter the 19th day at 9 at night.
- Full Moon the 26th day at 11 at night.

1	d	All Saints	canc.	17	8	A	30		Cloudy and close,
2	e	All Souls	canc.	27	9		42	Moons rising.	with some black frosts
3	f	D n. Affelim	leo	11	10		54		at the beginning, then
4	g	D n. cor leon	leo	25	12		6		follows ☉☿ windy,
5	a	Gunpowder Plot	virgo	9		M	6		rough, ☐☿ and
6	b	D n. caud leon	virgo	21			18		turbulent ☐☿
7	c	D n. Vindem.	libra				30		Weather, with ☐☿
8	d	D n. Spica Virg	libra	29	3		40		cold Rain or Snow,
9	e	D n. lanx Aut.	scorp.				50		and plenty thereof.
10	f	D n. lanx Bor.	scorp.	15	6		0		* ☉☿ ☐☿ ☉☿
11	g	Sol in Sagittar	scorp.	26		New		1	Martinmas day.
12	a	24 Sun. p. Trin	sagit.	10	5	A	14	Moons setting.	* ☉☿ ☐☿ close and
13	b	☿☿ 25 D.	sagit.	22	6		0		☉☿ foggy about
14	c	☿☿ 2	capr.				50		the New Moon; then
15	d	☿☿ 3	capr.	16	7		45		follows frosty Wea-
16	e	☿☿ 8	capr.	28	8		42		ther for ☉☿ some
17	f	☿☿ 9	aqua.	10	9		40		days; but about the
18	g	☿☿ 19	aqua	23	10		42		first quarter we may
19	a	24 Sun. p. Trin	pisces	4			46		expect Winds, with
20	b	D n. Manhab	pisces	16	12		68		cold Rain, Snow, or
21	c	D n. Aigenib	pisces	29	0	M	48		Sleet; and about the
22	d	D n. vent. Ceti	aries	12	1		54		Full Moon sharp fro-
23	e	D n. pr. * Ar.	aries	25	3		4		sty Weather is expe-
24	f	D n. Manker	taur.	5	4		20		cted; but the end of
25	g	D n. Pleiades	taur.	23	5		36		* ☉☿ ☐☿ the Month
26	a	25 S. p. Trin	gem.	8		Full		1	produceth Wind and
27	b	D n. dex hu. au	gem.	23	5	A	0	☉☿ rising.	Moisture.
28	c	Terminends	canc.	8	6		0		
29	d	D n. Cap. & ☉	canc.	23	6		10		
30	e	St. Andrew	leo	7	8		26		

NOVEMBER, 1699.

Saturn at the beginning sets between 11 and 12, at the end he sets about 10 at Night.
 Jupiter sets between 5 and 6 at Night.
 Mars rises about 2 in the Morning.
 Venus and Mercury are both of them Combuſt.

English Account	Roman Account.	Roman Calendar	Rom. Saints days						
1	1	g	Martin Ep.	and Effects. This then	1	7	38	4	22
2	2	a	Cunibert	with them as in the	2		39		21
3	3	b	Brice	Promethean Games,	3		41		19
4	4	c	Frederic	performed with burn-	4		43		17
5	5	d	2 p. Trin	ing Torchcs, which a-	5		45		15
6	6	e	Othmarus	gain hath alſo refe-	6		46		14
7	7	f	Hugo	rence to Arts and Sci-	7		48		12
8	8	g	Oct. Mart.	ences, as that Fire in	8		49		11
9	9	a	Elizabeth	whose Memory and Ce-	9		51		9
10	10	b	Edmond R.	lebration theſe Games	10	7	52	4	8
11	11	c	Oblat. V.M	were Inſtituted; and	11		54		6
12	12	d	3 S. p. Tr.	it contains in it a	12		55		5
13	13	e	Clement	moſt Wiſe Admoni-	13		57		3
14	14	f	Chriſogon	tion, that the perfe-	14	7	58		2
15	15	g	Catherin	ction of Sciences is to	15	8	0	4	0
16	16	a	Conradus	be expected from Suc-	16	8	1	3	59
17	17	b	Agricola	ceſſion, not from the	17		3		57
18	18	c	Ruffus	nimbleneſs & prompt-	18		4		56
19	19	d	Advent	neſs of one only Au-	19		6		54
20	20	e	St. Andrew	thor; for, they that are	20	8	7	3	53
21	21	f	Longinus	nimbleſt in Courſe,	21		8		52
22	22	g	Libanus	and ſtrongeſt in Con-	22		9		51
23	23	a	Caſſian.	tention,	23		10		50
24	24	b	Barbara		24		11		49
25	25	c	Sabina		25	8	12	3	48
26	26	d	2 S. Advent		26		13		47
27	27	e	Agath. M.		27		14		46
28	28	f	Con. V. M.		28		15		45
29	29	g	Cyprian		29		15		45
30	30	a	Miltiades						

December hath xxai Days.

- ☾ Last Quarter the 3d day at 5 at night.
- ☾ New Moon the 11th day at 10 in the morning.
- ☾ First Quarter the 19th day at 2 in the afternoon.
- ☾ Full Moon the 26th day at 10 in the morning.

1	c	☾ n. cor leon:leo	22 9 A	40	Moons rising	*☾☽ Cloudy and close at the beginning, and continues close ☾ ☿ ☽ with some little Frost, and 'tis hoped moderate in respect of the Season; but *☾☽☽ about the 8th ☾ ☿ ☽ day begins windy and stormy weather, which continuess till after the ☾☽☽ New Moon, then we may expect cloudy and close, yet frosty Weather, but 'tis hoped moderate for the Season ☾☽☽ with Snow and right wintery Weather, and may ☾☽☽ probably continue Frosty, and rather increase than otherwise, to the end of the Year ☾☽☽.	
2	g	☾ n. luc in ter.le. virg.	6 10	56			
3	g	Advent Sunday virgo	19 12	12			
4	b	☾ n. Vindem. libr.	30 M	12			
5	c	☾ n. Spica Virg: libr.	16 1	24			
6	d	☾ n. lanx austr. libr.	29 2	32			
7	e	☾ n. lanx Bor. scor.	12 3	36			
8	f	☾ n. fin. ma oph. scor.	24 4	40			
9	g	☾ n. cor scor. sagit.	7 5	44			
10	g	☾ n. Sun. p. Taur. sagit.	19 6	44			
11	b	☾ n. Sol in Capricor. capr.	1 New	☾	Moons setting.		
12	c	☾ ☿ ☽ 27	capr.	13 5 A			24
13	d	☾ ☿ ☽ 8	capr.	25 6			20
14	e	☾ ☿ ☽ 19	aqua.	7 7			16
15	f	☾ ☿ ☽ 14	aqua.	18 8			18
16	g	☾ ☿ ☽ 24	pifces	0 9			20
17	g	☾ n. Sun. Advent pifces	12 10	22			
18	b	☾ ☿ ☽ 17	pifces	24 11			26
19	c	☾ n. Algenib. aries	7 12	30			
20	d	☾ n. Winter Week aries	20 0 M	30			
21	e	☾ n. St. Thomas taur.	3 1	38	☾'s rising.		
22	f	☾ n. Pleiades taur.	17 2	50			
23	g	☾ n. Aldebar gem.	2 4	4			
24	g	☾ n. Sun. Advent gem.	16 5	18			
25	b	☾ n. Nativ. Christ canc.	1 5	30			
26	c	☾ n. St. Stephen canc.	17 1	☾			
27	d	☾ n. St. John leo	2 5 A	40			
28	e	☾ n. Innocent leo	17 7	0			
29	f	☾ n. Inc. in te. leo virgo	1 8	19			
30	g	☾ n. caud. leon: virgo	15 9	16			
31	g	☾ n. St. Christmas virgo	29 10	54			

DECEMBER, 1699.

English Account. Roman Account. Roman Kalendar. Saturn at the beginning sets betwixt 9 and 10, at the end he sets before 8 at Night. Jupiter is Combust. Mars rises betwixt 1 and 2 in the Morning. Venus at the beginning is hid under the Sun beams, but at the end she may be seen with Mercury, both setting a little after the Sun.

1	11	D	Danius	tention, yet happily	1	8	16	3	44
2	12	E	Alfred	have not the luck to	2		17		43
3	13	O	S Advent	keep Fire still in their	3		17		43
4	14	E	Nirafius	Torch, seeing it may	4		18		42
5	15	F	Abraham	be in more danger of	5		18		42
6	16	G	Ananias	being extinguished by	6		18		42
7	17	A	Lazarus	running too fast, than	7		18		42
8	18	B	Bernardus	by going too slow,	8		19		41
9	19	C	Loth	etc.	9		19		41
10	20	D	S. Advent		10		19		41
11	21	E	St. Thomas		11	8	19	3	41
12	22	F	30 Mart.		12		19		41
13	23	G	Victor		13		19		41
14	24	A	Adam & E.		14		19		41
15	25	B	Christmas		15		18		42
16	26	C	St. Stephen		16		18		42
17	27	D	St. John		17		18		42
18	28	E	Innocent		18		17		43
19	29	F	Jonathan		19		17		43
20	30	G	David		20	8	16	1	44
21	31	A	Silvester		21		16		44
22	1	J. 700.	Circumcis.		22		15		45
23	2	B	Abel		23		15		45
24	3	C	Enoch		24		14		46
25	4	D	Methusal.		25	8	13	1	47
26	5	E	Simeon		26		13		47
27	6	F	Epiphany		27		12		48
28	7	G	Julian		28		11		49
29	8	A	Erhardus		29		10		50
30	9	B	Marcellus		30		9		51
31	10	C	S. p. Epip.		31	8	8	2	50

A TABLE shewing how many Years purchase a Lease or Annuity (to endure for any number of Years under 33) is worth presently, at Interest upon Interest, at Six in the Hundred; and shewing plainly how to discount any Lease in being, and the value of the Reversion after any number of Years.

The Use and Explanation of the T A B L E.									
The first Column towards the left Hand sheweth the Years of a									
Years of a Lease.	Years.	Months.	Tenth Parts.	Lease, or Annuity, and right against each Year, is the Years, Months, and Tenth Parts of a Months purchase, that such a Lease or Annuity is worth.	Example: Suppose a Lease or Annuity to continue 12 Years, and you would know how many Years purchase it is worth in present Money, look in the Table for Twelve Years of a Lease to the left Hand, and against the same you shall find 8, 4, 6, which sheweth that such a Lease is worth 8 Years, 4 Months, and 6 Tenth parts of a Months Pur- chase.	Years of a Lease.	Years.	Months.	Tenth parts.
1	0	11	0	17		17	10	5	8
2	1	9	9	18		18	10	9	3
3	2	8	7	19		19	11	1	9
4	3	5	9	20		20	11	5	7
5	4	2	5	21		21	11	9	3
6	4	11	1	22		22	12	0	5
7	5	7	0	23		23	12	3	6
8	6	2	7	24		24	12	6	6
9	6	9	9	25		25	12	9	4
10	7	4	3	26		26	13	0	0
11	7	10	7	27		27	13	2	5
12	8	4	6	28		28	13	4	9
13	8	10	3	29		29	13	7	1
14	9	3	6	30		30	13	9	2
15	9	8	5	31		31	13	11	1
16	10	1	3	32		32	14	1	0

AGAIN:

If you are to take or buy the Reversion of any Lease or Annuity, work thus; Suppose the Lease to be Thirty Years in all, you find in the Second Table and Right Hand against Thirty, 12 Years, 9 Months, and 2 Tenth Parts of a Months Purchase; this it's were worth were it in present Possession. But suppose there be a Lease of five Years (more or less) before you commence, look in the Table against the five Years, and there you find four Years, two Months, and 5 Tenth parts of a Months purchase: Take this out of the Sum against Thirty, which is, 12, 9, 2, the Remainder is, 8, 6, 7, which is 8 Years, 6 Months, and 7 Tenth Parts of a Month; and so much is the Reversion after five Years worth, the Remainder of Thirty Years

This is Useful, and very Easy.

S A U N D E R, 1699.

The Second Part.

Containing the Eclipses; the Suns Quarterly Ingresses, the Southing of the seven Stars for every 5th. day of this Year: With directions for finding the Rising, Southing, and Setting of several Fixed Stars; Also Rules and Tables for the measuring of Board, Glass, Pavements, or other Superficial measure; as also to Measure Timber; And other things worth Observation.

The Characters of the Twelve Signs.

Aries, ♈ Taurus, ♉ Gemini, ♊ Cancer, ♋ Leo, ♌ Virgo, ♍ Libra, ♎ Scorpio, ♏ Sagittary, ♐ Capricorn, ♑ Aquarius, ♒ Pisces.

The Characters of the Planets, with the Dragons Head and Tail, Saturn, ♄ Jupiter, ♃ Mars, ☉ Sol, ♀ Venus, ☿ Mercury, ☾ Moon, ♁ Dragons Head, ☿ Dragons Tail.

The Aspects.

Conjunction, * Sextile, □ Quartile, △ Trine, & Opposition

Brief Chronology of Memorable things, to this Year, 1699.

The Creation of the World	5647
Noahs Flood	3992
The destruction of Sodom and Gomorrah	3601
The destruction of Troy	2881
Brute entered this Island	2806
The Building of London	2306
The Building of York	2688
The Building of Leicester	2642

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The building of <i>Canterbury</i>	259
The building of <i>Stamford</i>	258
The building of <i>Rome</i>	245
The destruction of <i>Jerusalem</i> by <i>T. Vesp.</i>	161
<i>England</i> first received the <i>Christian Faith</i>	131
The <i>Tower of London</i> built	113
Duke <i>William</i> conquered <i>England</i>	63
<i>Westminster Hall</i> was built	60
The <i>Bible</i> divided into <i>Chapters</i>	50
The <i>Invention of Guns</i>	32
The <i>Art of Printing</i>	29
<i>St. Pauls</i> Steeple fired by <i>Lightning</i>	13
New <i>Star in Cassiopeia</i>	12
A great <i>Snow</i> fell <i>Feb. 4.</i>	12
<i>Tilbury Camp</i> on <i>St. James's day</i>	11
A <i>Plague</i> in <i>London</i> , whereof dyed 30598	9
<i>Gunpowder Treason</i> , <i>November 5.</i>	9
A great <i>Snow</i> , and <i>Smithfield</i> paved	8
A great <i>Plague</i> in <i>London</i> , whereof dyed 35418	7
The <i>Long Parliament</i> began, <i>November 3.</i>	5
King <i>Charles</i> the <i>First</i> was <i>Murdered</i>	5
Two <i>Comets</i> appeared in <i>December</i> and <i>March</i>	4
The doleful <i>Plague</i> that followed them	4
<i>London</i> was burnt, <i>September 2, 3, 4, 5</i>	3
The last great <i>Snow</i>	2
The wonderful <i>Comet</i> in <i>December</i>	2
A <i>Comet</i> in <i>August</i>	1
The terrible <i>Fire</i> in <i>Wapping</i> , <i>November 19.</i>	1
A great <i>Earthquake</i> , <i>October the 6th</i>	1
The last great <i>Frost</i>	1
The <i>Rebellion</i> in the <i>West</i>	1
The seven <i>Bishops</i> sent to the <i>Tower</i> , <i>June</i>	1
The <i>Prince of Orange</i> Landed, <i>November 5.</i>	1
King <i>William</i> went to <i>Ireland</i> with an <i>Army</i> , <i>June</i>	1
The <i>French Fleet</i> beaten by the <i>English</i> and <i>Dutch</i> , &c.	1
Our Most <i>Gracious Queen Mary</i> Dyed, <i>Dec. 28.</i>	1
The <i>Horrid Conspiracy</i> to <i>Assassinate His Majesty King</i> <i>William</i> , and to bring in the <i>French</i> , was happily disc.	1

S A U N D E R, 1699.

Of the Eclipses this Year 1699.

There will happen this Year, to the Inhabitants of this Ter-
raqueous Globe, whereon we live, Four Eclipses; *viz.*
 Two of the *Sun*, and Two of the *Moon*: Of which Eclipses,
 Two will be visible; *viz.* one of the *Sun*, and one of the
Moon. They happen as followeth.

The first is a visible Eclipse of the *Moon*, the 5th day of
 March, about 7 a Clock at Night. The Calculation followeth.

March the 5th day, at 7 Hou. 4': P. M,

deg. ' "

The Place of the *Sun* is \times 25-30-28

The place of the *Moon* is m 25-30-28

Argument of the *Moon's* Latitude 11 Si. 22-53-41

The *Moon's* Latitude South descending 37-05

Reduction added 01-44

Time of Reduction substract 03-19

Correct Time, the 5th day at 7 Hours-00-41

Equation of Time substract 05-39

Apparent Time at *London*, at 6 Hours-55-02

Apparent Time at *Leicester*, at 6 Hours-51-02

Semidiameter of the *Moon* 15-20

Semidiameter of the *Earth's* shadow 41-00

Sum of the Semidiameters 56-20

Moon's Latitude substract 37-05

The parts deficient 19-15

The Digits Eclipsed are 7 31-57

Minutes of Incidence 42-24

The Time of Incidence is 1 Hour-21-24

Interval of the true Opposition and greatest Obscuration 05-11

The beginning at 5 Hours-35-49

The middle at 6 57-13

The end at 8 18-37

The total Duration 2 42-48

The *Moon's* Latitude at the beginning, South desc. 41-03

The *Moon's* Latitude at the end, South desc. 33-06

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A Type of the Moon's Eclipse, March the 5th, at 7 at Night.



The second Eclipse is of the *Sun*, the 21th day of *March* about Eight of the Clock in the morning; but by Reason of the Moon's Latitude and Parallax, there can no Eclipse appear in *England*, or in any part of *Europe* at that time; but will appear a great Eclipse beyond the *Cape of Good Hope*, and towards the *Antartick Circle*.

The third Eclipse is of the *Moon* the 30th day of *August* about half an hour before Noon, and therefore invisible unto us; but will appear to a great part of *America*, about *Cassina*, and to our *Antipodes*: But it will not be (as our *Ephemerides* tell us) a total Eclipse, it will want about a 5th part of being total.

The fourth Eclipse is a great and visible Eclipse of the *Sun* upon the 13th day of *September*, betwixt 9 and 10 in the morning. It will appear very great to most part of *Europe*; but to us, take this short Account.

Ho.

The equal time of the \odot at *London* 13th day at 10—46

Time of Redu. 4 m. and Equat. of time 8 m. both 00—12

Added, makes the apparent Conjunction at *Lon.* at 10—52

Difference of Meridians betwixt *London & Leicester* 00—04

The apparent time of the true \odot at *Leicester* at 10—48

At which time the Moon's Parallax in Longitude is such, being divided by the visible hourly motion of the Moon the *Sun*, it gives the interval of the true and visible \odot 1 H

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10 minutes, which 1 hour, 10 min. being substract from 10 hours, 48 minutes, leaves the time of the visible Conjunction

at Leicester at	9 Hours	38	00
At which time the place of the Sun is	00 Deg.	27	10
And the place of the Moon	29	54	51
Node ascending substract	22	28	02
Remains Argument of Latitude	00	07	26
The Moon's true Latitude North ascend.	00	38	50
The Moon's Parallax in Latitude South subst.	34	50	
Leaves the Moon's visible Latitude North	04	00	
The Semidiameter of the Sun	16	05	
The Semidiameter of the Moon	15	34	
Sum of the Semidiameters	31	39	
The Moon's visible Latitude substract	04	00	
Remains Parts deficient	27	39	
The Digis Eclipsed are	10 Dig.	18	54
The beginning of the Eclip. at 8 Ho.	25		
The middle at	9	38	} in the Morning,
The end at	10	53	
The total Duration	2	28	

A Type of the Sun's Eclipse, September the 13th, 38 minutes after 9 in the morning.

That which we call an Eclipse of the Sun, is more properly an eclipse of the Earth, it being no other than the Moon interposing, and thereby shadowing the Earth, the Earth doth the Moon, in the Eclipse of the Moon; and upon such parts of the Earth as the Center of the Shadow passeth, there the Eclipse is greatest



In this Eclipse of the Sun, or Earth, the Center of the Shadow of the Moon enters upon the North-East part of America, far from Davis's Streights, thence passing North of Newfoundland, it passeth on to Scotland, North-East of England, Holland, Zealand, through Germany, Sclavonia, Bulgaria, and

on to the *Archipelago*, by the Island *Scio*, to *Smyrna*, through *Asia minor*, *Armenia*, *Persia*, on the further parts whereof the Center of the Shadow leaveth the Earth : To all which places the Eclipse will appear nearly Central ; it will appear also very great to all places bordering upon the former ; and to the middle parts of *England* it will appear as in the foregoing Figure.

I hope my Country-Men know better now, than to be so affrighted, as many were in the Year 1652, by the Bugbear *Astrologers* of those Times, who so Terrified many of the Vulgar (as I have heard many Ancient People relate) with the great Eclipse upon the 29th of *March* that Year, that they brought home their Cattel, great and small, and filled their Houses, Barns, Stables, &c. and all this for fear of they knew not what, a Shadow, the Shadow of the Moon ; and yet could rest very contentedly every Night, under, and in the deepest Shadow of a Body 40 times greater than the Moon. Some may possibly tell you this Year some terrible Stories of this great Eclipse, but I would willingly perswade you that you need not affright your selves thereat ; but that it is worthy to be observed, and admired, as all other the admirable Works of our Great and Omnipotent Creator, — *The Heavens declare the Glory of God, and the Firmament sheweth his handy-work, &c.*

Of the Four Quarters of the Year, and first of the Spring.

THE Spring Quarter this Year begins the 10th day of *March* at 5 hours, 58'. 4". in the Morning, according to *Astronomia Anglicana* ; but according to the *Caroline Tables*, it begins the same day at 7 hours, 45 min. 40". in the Morning : Then, or thereabout, the *Sun* entring into *Aries*, causeth equal Day and Night to all the Inhabitants of the Earth, (except under the *Poles*.) Now it is good to use such Meats or Medicines as purge and sweeten the Blood. In *April* you may freely bleed, bathe or purge, if there be occasion. In *May* it is wholesome to drink Clarified Whey. Now Drink but little Wine ; and forbear such Meats as are of a hot Quality.

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Of Summer.

Summer Quarter begins *June 11.* at 8 ho. 40^o. 39^u. in the morning, at which time the *Sun* entring the Tropical sign *Cancer*, maketh the longest Day and shortest Night to us, and to all on this side the Equator. Now eat moderately, and such Meats as are easily concocted. In *July* beware of Bleeding or Purgings, unless there be great occasion. In this and the next Month, beware of such Meats as ingender Melancholly.

Of Autumn.

Autumn this Year begins *September 12.* at 11 h. 45 min. 32^u. Afternoon, the *Sun* then entring *Libra*, doth again make equal Day and Night. Now Salt or powdered Meats may be eaten without prejudice. Roasted meats, and Wild Fowl, are now held to be very wholesome. In this quarter beware of taking Cold.

Of Winter.

Winter Quarter begins *December the 11th*, at 11 hours, 53 min. 55^u. in the morning, the *Sun* then entring *Capricorn*, maketh our shortest Day and longest Night. It is now good to keep warm, and to eat such meats as are of hot Quality. In *February* you may take Pills to purge the head. Bathe or Bleed, if there be occasion.

find the Rising, Southing and Setting, of several fixed Stars hereafter mentioned.

In the Tables following you have first the seven Stars Southing for every fifth day: in the second Table is set the difference betwixt the Southing of those Stars therein named, and the seven Stars, which being added to the time of the seven Stars Southing,

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giveth theirs. In the same Table is also set their semidiurnal Arch: thereby to find the rising and setting of the said Stars. Suppose it is required to know what time the great Dog-star called *Syrus* will be South the 11th. of *February*? I then find the Seven Stars South at 3 ho. 10 min. to which I add 3 ho. 2 min. the difference annexed to the great Dog-Star, and it makes 8 ho. 12 min. being the time of its Southing the said 11th. of *February*. If to the Southing you add the Semidiurnal Arch 4 ho. 31 min. it gives the time of its setting at 12 ho. 43 min. but if you subtract the Semi-diurnal Arch from the Southing it leaveth the time of its Rising. The like may be done by any other of the said Stars.

For the better distinction of the several sizes of Stars they are divided into six several magnitudes. The biggest and brightest Stars are called Stars of the first Magnitude. Those one size inferior in light, and bigness are called Stars of the second Magnitude, &c. Now for the better knowing the Stars hereafter mentioned, Note, that the great Dog-star, Lions Heart, Virgins Spike, and the bright star of *Lyra*, are accounted stars of the first magnitude, so are also *Aldebaran* and *Arcturus*, but they are Red stars much of the colour of *Mars*, all the rest in the Table are of the second magnitude, except the Northern and Southern *Aff*, which are small Stars being of the fourth magnitude.

A Table shewing the Hour and minute of the Seven Stars coming to South, every 5th day of this year, 1699.

Months	Dayes of the Month.									
	I		6		11		16		21	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
January	7	A 57	7	A 36	7	A 14	6	A 53	6	A 32
February	5	A 49	5	29	5	10	4	51	4	32
March	4	A 03		41	3	23	3	42		46
April	2	A 71		48	1	30	1	11	0	52
May	0	A 14	11	M 54	11	M 34	11	M 14	10	M 53
June	10	M 89		47	9	26	9	68		45
July	8	M 57		45	7	24	7	66		45
August	6	M 35		45	5	26	5	84		49
September	4	M 10	3	52	3	34	3	17	3	02
October	2	M 22	2	31		44	1	25	1	50
November	0	M 22	0	21	11	39	11	10	10	54
December	10	A 11	9	A 40	9	26	9	48		41

A Table

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Table shewing the difference in hours and minutes between the coming to fourth of several fixed stars, and the seven stars, as also their semi-diurnal Arcs thereby to find their rising and setting.

Names of the Stars.	Differ. semid.		Names of the Stars.	Diff.		semid.	
	South.	Arches		South.	Arches		
	b.	m.		b.	m.	b.	m.
Aldebaran E. eye .	0	49 7	28	Lions heart, Basil.	6 23 7	13	
Alin Orions Girdle	1	51 5	54	Virgins Spike	9 40 5	9	
Gr. Dog. Syrius	3	24 3	1	Arcurus	10 32 8	0	
Castor 1st. head II	3	46 9	47	South ballance	11 54	40	
Gr. Dog. Procyon	3	54 6	32	North ballance	11 31 5	16	
Pollux, 2d. head II	3	57 9	4	Northern Crown	11 52 8	55	
Northern Afl.	4	55 8	12	bright * Lyra	14 57	feet not	
Southern Afl.	4	48 7	45	bright * Vulturis	16 66	42	

Here followeth some few Rules, and Tables for the mensuration of Superficies and Solids.

For the Mensuration of superficial or flat measures, such as Board, Glass, Pavement, Hangings, &c. it will be necessary to know how to measure any plain superficial figure, as the Square, Long-square, or Parellelogram, Triangle, Circle, parts of the Circle, &c. examples of all which do here follow.

I. How to measure a Square.

Let there be a square floor, or pavement, the sides whereof are each of them 5 feet 6 inches, and 'tis required to know how many square, or superficial feet are contained therein. First (a good plain way to avoid Fractions will be to) Reduce the whole side into inches, 5 feet, 6 inches, being 66 inches, multiply 66 by 66, and the Product will be 4356, the superficial content in inches; then divide 4356 by 144 (the square inches in one foot) and the quotient will be 30 feet, and 6 inches remaining, which is the number of inches in one quarter of a foot; so that in such a square is contained 30 feet and one quarter. See the Margin.

$$\begin{array}{r}
 66 \\
 \times 66 \\
 \hline
 396 \\
 396 \\
 \hline
 4356 \\
 \div 144 \\
 \hline
 30 \text{ feet} \\
 6 \text{ inches}
 \end{array}$$

II. To

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II. To measure the Long-square or Parallelogram.

Suppose there be a Pavement whose length is 72 feet, and breadth 12 feet, how many feet is contained therein.

72
12
144
72
864

Multiply 72 in length, by 12 the breadth, and the product will be 864, and so many superficial feet are contained in that Pavement.

III. To Measure a Long Superficies, which is broader at one end than at the other.

Let there be a superficies whose length is 72 inches, the breadth of the greater end 50 inches, and the breadth of the lesser end 34 inches, and let it be required to know how many feet are contained therein. First, add the breadths of both the ends together, which maketh 84, take half thereof, which is 42, which being multiplied by 72 the length, the product will be 3024 the content in inches, which being divided by 144 (the inches in one foot) the Quotient will be 21 feet, and nothing remaining, so that there is exactly 21 feet in such a superficies.

72
42
144
298
3024
144
288 (21)
144

IV. How to Measure Triangles.

All Right lined Triangles are measured by this general Rule.

Multiply half the length of the Base by the whole Perpendicular. Or, the whole length of the Base by half of the Perpendicular.

Suppose the Base of a Triangle be 44, and the Perpendicular 26, what is the Content.

Multiply 44 (the Base) by 13, (half the perpendicular) the Product will be 572 : Or 22 (half the Base) being multiplied by 26, (the whole perpendicular) the Product will be 572, as before, which is the Content of such a Triangle.

V. All Trapezias, or Figures with four unequal sides ; also Multangular, or many sided irregular Figures, must be divided into Triangles, and those Triangles measured as before is taught, and their sums added together will give the content of such irregular Figures. And note, that the least number of Triangles, into which any plot or irregular figure may be reduced, will be less by two than the number of the sides of such irregular figures.

VI. How to measure Circles, and parts of Circles.

The Diameter of every Circle hath such proportion to the circumference of the same Circle as 7 hath to 22. Therefore

The Diameter being given to find the circumference, you must multiply the Diameter by 22, and the product being divided by 7, the Quotient will be the circumference. Thus, suppose the Diameter of a Circle be 14, multiply 14 by 22, the product will be 308, which being divided by 7, the Quotient is 44, being the circumference of that Circle whose Diameter is 14.

Having the Circumference to find the Diameter.

Multiply the circumference given by 7, the product divide by 22. and the Quotient will be the Diameter. Let the circumference of a circle be 60, multiply 60 by 7 the product will be 420, which being divided by 22, the Quotient will be 19 $\frac{1}{2}$, and $\frac{2}{3}$ or $\frac{1}{1}$ which is the Diameter.

To find the Area or Superficial content of a Circle. Multiply half the circumference by half the Diameter, the product is the content of the Circle: Thus, Let the circumference be 60, the half whereof is 30, and the Diameter 19 $\frac{1}{2}$ the half whereof is 9 $\frac{1}{2}$, by which multiplying 30, the product will be 286 $\frac{4}{11}$ which is the superficial content of such a Circle; or,

By the Diameter to find the Area of the circle. First, Square the Diameter, multiply the square by 11, and divide the product by 14, the Quotient is the superficial content of the circle. Let the Diameter be as above 19 $\frac{1}{2}$ the square whereof is 384 $\frac{1}{4}$ this multiplied by 11 produceth 4224 $\frac{1}{4}$ which being divided by 14 the Quotient is 286 $\frac{4}{11}$ as above, being the superficial content of such a circle.

To measure the superficial content of half the circle, the quarter of a circle, or of any other section of a circle, more or less, having the semidiameter given.

Multiply half of the compass thereof by the semidiameter of the circle, so shall you have the content.

Of the Mensuration of Solids.

A Plain or Superficial Measure consisteth of two dimensions, namely, length and breadth; so Solid measure consisteth of three dimensions, namely, length, breadth and thickness.

To measure any kind of Timber, either Square, Triangular, Round, or of any other Fashion, provided it be straight and equal all along.

Cast up the superficial Content at the end thereof, by the rules before going, for the finding the Content of the Square, Triangle, Circle, &c. which Superficial Content being multiplied

plied by the length of the Piece, will give you the Solid Content thereof. *Example.* Let there be a piece of Timber, (or other solid matter) whose breadth is 18 inches, its depth 13 inches, and length 142 inches, to find how many solid feet are contained therein. First, multiply the breadth 18 by the depth 13, the product is 234, being the superficial inches at the end of the piece. Secondly, multiply this 234 by 142 the length of the piece, and the product will be 33228, the solid Content in inches. Thirdly, divide 33228 by 1728, (being the number of cubical inches in one solid foot) and the quotient will be 19, and 396 inches remaining, which is 19 solid feet, and almost one quarter of a foot, and so much is the solid content of such a piece.

A 2d Example of a round piece. Let there be a round piece of Timber whose compass is 60 inches, and the length 20 feet, (or 240 inches) and let it be required to find the solid content thereof. First, by the help of the circumference 60, find the Diameter (as before is taught) by multiplying 60 by 7, and dividing the product thereof by 22, so shall you find the Diameter to be 19 $\frac{1}{2}$. Then by either of the ways before taught, viz. by multiplying the circumference by $\frac{1}{2}$ the Diameter; or by (squaring, or) multiplying the Diameter in it self, and multiplying that square by 11, and dividing the product by 14, the superficial content of the end of such a piece will be found to be $286 \frac{1}{4}$ inches. Now multiply this $286 \frac{1}{4}$ by the length of the piece 240, and the product will be 68727 $\frac{1}{4}$ the content in inches, which being divided by 1728, the quotient will be 39 feet, and $\frac{3}{4}$ of a foot, and 39 $\frac{3}{4}$ inches remaining, which is the solid content of such a piece of Timber. But had this piece of Timber been measured by that egregiously false way of taking $\frac{1}{2}$ part of the Girt for the side of the square equal, it would have been found to be but 31 feet and $\frac{1}{2}$ of a foot, which is above $\frac{1}{2}$ part less than the truth, it being 39 feet, & above $\frac{1}{2}$ part.

In behalf of that erroneous way many do plead, that in round Timber there is great loss in chipping to bring it near a square; therefore that way may be allowed; but this is very unequal, in great Timber there being little loss, in small Timber much; let therefore the quality be considered, rather than make such unequal amends by a false quantity.

Of the Mensuration of Tapering Timber, either round or squared, such as Frustrums of Cones and Pyramids.

First find the superficial Area of each end of the piece; and multiply the one Area by the other. Secondly, out of the

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the product of the two Area's, extract the Square Root. Thirdly, add this Root and the two Area's all into one sum. Lastly, multiply this sum by one third part of the length of the piece, and that product shall give you the Content.

Let there be a piece of Timber whose Circumference at the greater end is 66 inches, at the lesser end 44 inches, and the length 20 feet, and it is required to find how many solid feet are contained therein. First, the Area of the Circle at the greater end (by multiplying half the Circumference 33 by half the Diameter 10 $\frac{1}{2}$) will be found to be 346 $\frac{1}{2}$, and the Area of the Circle at the lesser end will be 154: These multiplied together do produce 53361. Secondly, out of this product extract the Square Root, which is 231. (for 231 being multiplied in itself produceth 53361). Thirdly, add the two Areas, and the Square Root 231 together, and the sum of them will be 731 $\frac{1}{2}$. Lastly, multiply 731 $\frac{1}{2}$ by 80 inches, (one third part of the length) and the product will be 58520, being the solid inches contained therein, which inches being divided by 1728, the Quotient will be 33 feet, and 1496 inches remaining, which is 3 quarters of a foot, and almost half a quarter.

To find the Content of Tapering Timber, other ways than is taught above.

These pieces being parts of Cones or Pyramids, their Contents may be found by seeking the Content of the whole Cone or Pyramid, (of which they are part) and the Content of that part which is wanting, for that part being subtracted from the whole, the remainder must be the Content of the part required.

Now the way to find the content of a Cone or Pyramid is, to multiply the superficial Content of the Base by one third part of the length; and to find the length of the top part of a Cone or Pyramid which is wanting; say thus, As the difference of the sides, or Diameters of the two ends, to the length between them; so is the side, or Diameter of the greater end, to the whole length. Example, of the piece before mentioned, whose greater end is 66 inches about, and the lesser end 44; hence the Diameter of the greater end will be 21, and the Diameter of the lesser end will be 14, and their difference is 7, therefore say, If 7 give 20 feet what will 21 give? Answer, 60 feet; being the whole length of the Cone: Now the superficial

Content of the Base of this Cone, (being $346\frac{1}{2}$ inches) multiplied by 240 inches, (one third part of the length of the whole Cone) produceth 83160 inches, the content of the whole Cone. And the superficial content of the lesser end, (which is the Base, of the top (or wanting) part of the Cone) which is 154, being multiplied by 160, (one third part of the length of the top (or wanting) part) produceth 24640 inches, the content of the wanting part, which being subtracted from 83160, (the content of the whole Cone) the remainder is 58520 inches, the content of the part required, being the same as before.

Here followeth Tables ready calculated, for the Measuring of Squared or Round Timber, which is supposed to be equal all along: Their use is thus, seek the side of the Squared, or compass of the Round Timber, in the first, third or fifth column of the Tables, and against it, in the next column you have the length of a solid foot. Thus, the side of a squared piece of Timber being 20 inches, the length of a solid foot will be 4 inches, and 3 tenth parts of an inch: And the compass of a round piece, being 80 inches the length of a solid foot will be found to be 3 inches, and 39 hundredth parts of an Inch.

A Table, shewing how much in length will make a Solid foot of any Square Stone or Timber: The side of the Square being given in inches, from one inch to 26 inches square.

Side of the Square.	Length of a solid foot.	Side of the Square.	Length of a solid foot.	Side of the Square.	Length of a solid foot.
Inch.	Fe. inc. 10ths	Inch.	Inc. 10th.	Inch.	Inc. 10th.
1	144 0 0	13	10 2	25	2 8
2	36 0 0	14	8 8	26	2 6
3	16 0 0	15	7 6	27	2 3
4	9 0 0	16	6 7	28	2 2
5	5 9 2	17	5 9	29	2 1
6	4 0 0	18	5 3	30	1 9
7	2 11 2	19	4 8	31	1 8
8	2 3 0	20	4 3	32	1 7
9	1 9 3	21	3 9	33	1 6
10	1 5 3	22	3 5	34	1 5
11	1 2 3	23	3 3	35	1 4
12	1 0 0	24	3 0	36	1 3

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A Table shewing how many inches in length will make a foot solid, of any round piece of Timber or Stone, the Girt being known, from 12 inches compass to 100.

Com. len. of a foot			Com. len. of a foot			Com. len. of a foot		
Inch.	Inch.	100 p.	Inch.	Inch.	100 p.	Inch.	Inch.	100 p.
11	79	45	41	12	92	71	4	31
12	150	80	42	12	31	72	4	20
13	128	49	43	11	74	73	4	08
14	110	79	44	11	31	74	3	97
15	94	31	45	10	72	75	3	86
16	84	82	46	10	26	76	3	76
17	75	14	47	9	83	77	3	66
18	67	02	48	9	42	78	3	57
19	60	15	49	9	04	79	3	48
20	54	29	50	8	69	80	3	39
21	49	23	51	8	35	81	3	31
22	44	86	52	8	03	82	3	23
23	40	90	53	7	73	83	3	15
24	37	69	54	7	42	84	3	08
25	34	74	55	7	18	85	3	01
26	32	12	56	6	92	86	2	94
27	29	79	57	6	68	87	2	87
28	27	70	58	6	45	88	2	80
29	25	82	59	6	24	89	2	74
30	24	13	60	6	03	90	2	68
31	22	60	61	5	84	91	2	62
32	21	21	62	5	65	92	2	57
33	19	92	63	5	47	93	2	51
34	18	78	64	5	30	94	2	46
35	17	74	65	5	14	95	2	41
36	16	76	66	4	98	96	2	36
37	15	86	67	4	84	97	2	31
38	15	04	68	4	70	98	2	26
39	14	28	69	4	56	99	2	22
40	13	57	70	4	43	100	2	17

Ad.

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From Leefthorp near Melton Mowbray
in the County of Leicesters, Octo-
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